

The
CHEMIST AND DRUGGIST

or RETAILER — WHOLESALE — MANUFACTURER

MAY 3, 1952



**REGISTER
EXTRA
PROFITS!**

(OFFER CLOSES MAY 31st)

CASH IN ON WRIGHT'S BIG BONUS OFFER!

WRIGHT'S COAL TAR SHAVING STICK AND REFILLS

WRIGHT'S COAL TAR LATHER SHAVING CREAM

Every twelfth sale of Wright's Coal Tar Shaving Stick or Shaving Cream will ring extra merrily on the cash register bell of retailers who order these quick-selling lines before May 31—it will be *ALL* profit.

Special publicity now appearing in the National Press will bring sales, so don't delay—send a stocking-up order today.

ONE IN EVERY DOZEN IS FREE!



FOR YOU AND YOUR CUSTOMERS —

WRIGHT'S *is right!*

WRIGHT LAYMAN & UMNEY LTD., 42-50 SOUTHWARK STREET, LONDON, S.E.1.

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the m... call acc... No... avo... Colo... East... com... In... Des... to the... under... During... a reg... By 1930... others... and work... fuel suppl... almost im... In the past... hundreds of... construction... tremendous... ment of fly... Clouds shrou... seemed to ha... cards. The... instruments... bearings... We... V... ice de... forced lo... quality of... like this... in prev... and... exact... winter... popular... in all... they...

the British... imation... and... the Far... developing... For Cairo... in Cairo... was... many... nt of... city... rate... cars... for... en... you... idea... develop... even... it is not...

It's unusual flavour shows that Euthymol is a remarkable toothpaste!

It's the selected ingredients that make Euthymol Toothpaste different. It is scientifically prepared to help keep your teeth, mouth and gums clean, fresh and healthy. And the unusual flavour tells you it's doing its job!

ask your Chemist's opinion of EUTHYMOL

I should imagine that a business-man might have the whole extent and even survival of his operations modified by the day, in New York the day after, and New Orleans, say, a few hours after that. Or suppose that his grape-vine attracts him that it is not New York or New Orleans where he is. It is of course, the travel below the 15-way, and the tele- with I am here recommending on and the tel- of cou- of

We're telling more people about *Euthymol*

— advertising on a larger scale than ever before ;
telling more people, in every walk of life, to consult
their Chemists about toothpaste. You know the
value of Euthymol. By displaying and recommending
it you can win many new, regular customers.

PATA

PARKE, DAVIS & COMPANY LIMITED
Hounslow, Middlesex

Inc. U.S.A.



CHEMIST FINDS NEW WAY TO HELP COUNTERACT DROP IN SALE OF LUXURIES

JUST now, when more and more chemists are experiencing a fall in demand for certain luxury products, this experience a chemist in Liverpool is especially interesting.

"For some time" he writes, "I had been wondering how to make up for the drop in demand for luxury goods. Then, one evening at home, last summer, I happened to notice a tin of Sanilav perfumed lavatory cleaner, and the idea flashed through my mind 'how would it go in the shop?'"

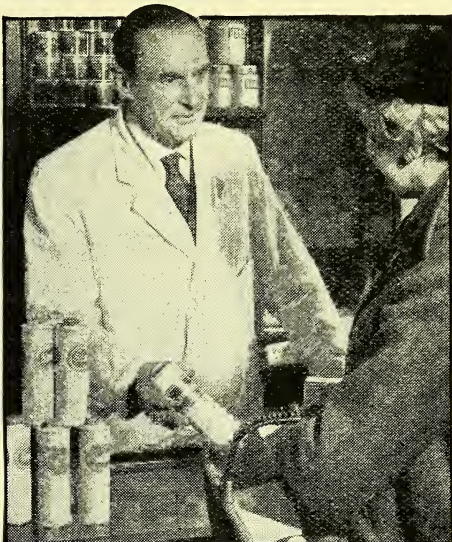
"Here was a particularly attractive pack; a product closely linked with hygiene, so very suitable for a chemist; and—since it was made by the Ibco people—I knew from experience that the quality was bound to be good.

"Anyway, I decided to try out a dozen tins in the shop. If they did not sell, there would be no harm done, we could quite easily use them up in the home.

Surprised by demand

"On delivery, I put a few tins on display on the counter, and to my surprise they started selling right away and in 3 or 4 days I found I had sold out. Since then Sanilav has settled down to a regular sale of between 2 to 3 dozen a month. It was certainly an experiment well worth trying, and I feel fairly convinced that Sanilav would enjoy a worthwhile sale in any chemist's shop."

Sanilav is the most efficient of all



★ *Women of all social classes are increasingly particular about keeping their homes, hygienically fresh and fragrant—hence the rapidly growing demand for Sanilav, the perfumed lavatory cleaner.* ★

lavatory cleaners, because it does four jobs in one. (1) Keeps the lavatory bowl and bend sparkling white right through. (2) Kills dangerous germs with its powerful disinfectant action. (3) Destroys unpleasant smells. (4) Leaves the air beautifully fresh and fragrant. All that's required with Sanilav is to sprinkle overnight and flush next morning.



Sanilav, the new "sprinkle" lavatory cleaner with the fragrant perfume, has a really attractive pack, which makes it ideal for display in a chemist's shop.

IF YOUR WHOLESALE CAN'T SUPPLY YOU, POST THIS COUPON

We would like your representative to call

Name.....

Address.....

Post in unsealed l.d. stamped envelope to
Ibco Products Ltd., River Road,
Barking, Essex.

If aspirin were freely
soluble and bland—

If calcium aspirin were
stable and palatable—

That would be 'Disprin'

DISPRIN

REGD.

Provides stable, soluble, palatable calcium aspirin

In all conditions which call for up-to-date aspirin therapy, Disprin may be advised and recommended.

50 tablet bottle 3/4; 26 tablet bottle 2/-; flat pocket folders 8 tablets 9d. (all including Purchase Tax).

Bulk supplies of INJECTIONS prepared in

Sterile Products unit

The following is a selection of the wide range of injections available in ampoules or rubber-capped bottles. Quotations for bulk supplies *ex stock* will be supplied on request.

Camphor in Oil 10% and 20%

Emetine Hydrochloride (Inj. Emet. Hydrochlor. B.P.)

Ephedrine Hydrochloride 0.03 grm, 0.05 grm, and 0.06 grm. in 1 ml.

Ephedrine Sulphate 0.05 grm. in 1 ml.

Morphine Hydrochloride 0.01 grm, 0.02 grm, and 0.03 grm. in 1 ml.

Morphine Hydrochloride 0.015 grm. with Atropine Sulphate 0.0006 grm. in 1 ml.

Morphine Sulphate (Inj. Morph. Sulph. B.P.)

Nicotinic Acid 50 mg. in 2 ml.

Nikethamide (Inj. Nikethamid B.P.)

Paraldehyde 2 ml, 5 ml, and 10 ml.

Quinine Dihydrochloride (Inj. Quinin. Dihydrochlor. B.P.)

ENQUIRIES

U.K. Market: Home Sales Department (B) Speke, Liverpool 19
and 50 Bartholomew Close, London, EC1

Overseas Markets: Export Sales Department, Speke, Liverpool 19



Made in England by

EVANS MEDICAL SUPPLIES LTD

Liverpool and London



HOLIDAY TIME IS



TIME

Be sure you stock these fast-selling squeezable and unbreakable containers.

Ideal for travel—packs your liquids in safety. Featherweight and moisture-proof. Available in 2, 4, 5 and 6 oz. sizes and in varying shapes. Cost 1/3d. each, retailing at 1/11d. each. The new directional all-purpose "Poly-Spray" complete with cap. Cost 8d. each, retailing at 1/-d. each. Fits 4 to 8 oz. sizes. Controlled dispensing spouts. Cost 6d. each, retailing at 9d. each. New 8 oz. size Poly-Tainer. Cost 1/7d. each, retailing at 2/4d. each. Ideal for home, picnics and garden use. National advertising campaigns are now being planned.



Order stocks now from your usual wholesaler or write direct to:

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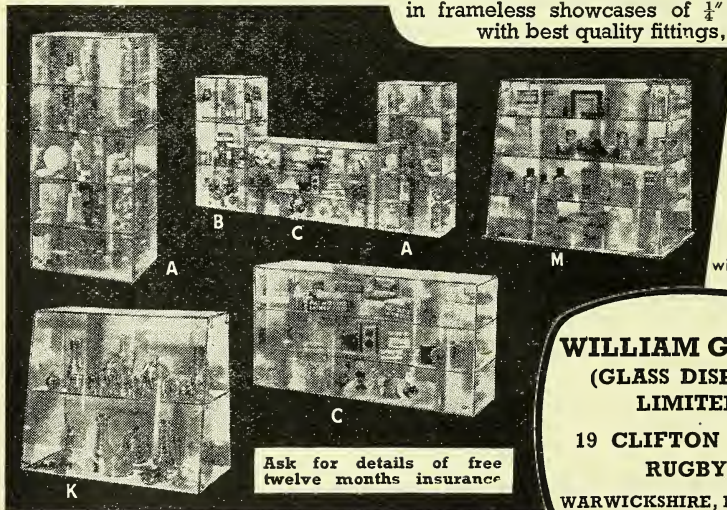
for name of nearest stockist

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Display Sells Goods

in frameless showcases of $\frac{1}{4}$ " polished glass with best quality fittings, chrome plated.



Mod.	H'th	W'th	D'th
A	30"	14"	10"
B	30"	14"	10"
C	16"	32"	10"
K	20"	24"	12"
M	20"	24"	12"

MA (as illustrated) with base & sliding door £9.10

Ask for details of free twelve months insurance

**WILLIAM GOODE
(GLASS DISPLAY)
LIMITED**

**19 CLIFTON ROAD
RUGBY**

**WARWICKSHIRE, ENGLAND
Telephone: Rugby 3100**

Prices include carriage in England and Wales. Export inquiries invited.

Delivery usually ex stock. 3½% discount for cash with order.

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This new B.D.H. tonic for all children contains the B vitamins to assist metabolism, iron for the formation of hæmoglobin, and vitamin B₁₂ for its tonic and growth promoting action.

'FERBELAN'

	Pharmacists	Retail
Bottle of 4 fl. oz.	2/6	3/9
" " 40 fl. oz.	18/-	for dispensing

... and the fully grown

'Livogen' effectively meets a wide range of adult needs. Its combination of yeast extract, vitamin B₁, nicotinic acid and liver extract B.P. constitutes an excellent tonic.

'LIVOGEN'

	Pharmacists	Retail
Bottle of 4 fl. oz.	3/4	6/1
" " 16 fl. oz.	11/4	20/9
" " 80 fl. oz.	53/4	for dispensing

Quantity terms on application

THE BRITISH DRUG HOUSES LTD. LONDON N.1

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Disinfectants

BLACK AND WHITE FLUIDS APPROVED FOR USE
UNDER THE DISEASES of ANIMALS ACT, ETC.

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DISINFECTANTS AND DEODORANTS—ALL TYPES
PACKED IN 1, 5, 10 and 40 gallon drums.**PRINCE REGENT TAR COMPANY LTD.**

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retails at 12/9
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In its superb style, quality and value the CHARM is typical of every Hughes brush. Good chemists are well advised to stock the whole Hughes range of personal brushes and combs.

Hughes

38/63

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240/242 BATH ROAD
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EVAN WILLIAMS

For all that is best in hair beautifying preparations

**SHAMPOOS
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BRILLANTINES
WAVE SET**



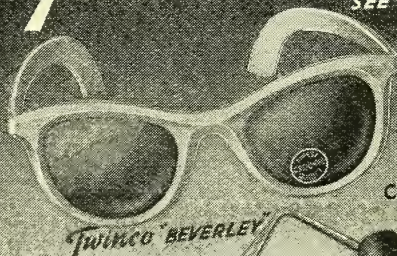
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Steady Demand
Well advertised
Firm Reputation**

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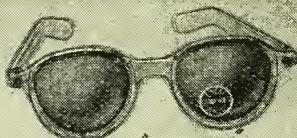
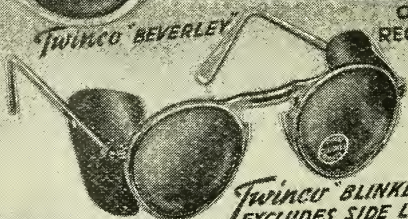
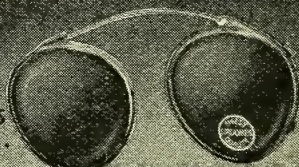
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SEE YOUR OPPORTUNITY IN YOUR WHOLESALE'S
RANGE



SHOWCARDS
AVAILABLE.
FULL
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ON
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FACE SQUARES

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WHITE, COLOURED,

**JACQUARD, and also CHENILLE
BORDERED**

as well as our

FAMOUS BARBERS' TOWEL



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Every day the 'NERVONE' message goes out to customers in your area!

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REGD

BUILDS UP NERVE POWER

CONSISTENT advertising has created a lively demand for 'NERVONE' the new biochemic formula, and still more extensive advertising is now planned. More and more of your customers will ask for 'NERVONE' and 'repeats' and recommendations flow freely from initial orders. It pays to stock and display 'NERVONE'

**One Shilling and Sevenpence
PROFIT on Each Sale!**

NEW ERA LABORATORIES LTD.
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High Potency
COD LIVER OIL CAPSULES

- 1 Vitamin A with additional Vitamin D
- 2 Vitamin E additional to Vitamins A & D
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Guaranteed by 50 years' experience in the production of COD LIVER OIL.
ALTRA Pharmaceuticals, manufactured by
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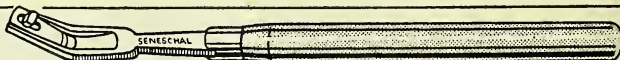
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PENETRATES and REBUILDS DAMAGED TISSUE in SKIN ILLNESSES
Remarkable for the Treatment of Burns, Spots, Rashes, etc.

BIO-COLLOIDS LTD., Altrincham, Cheshire
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On cards of six planes



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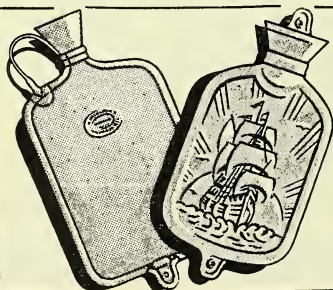
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ferrania



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Also available from leading Chemists' Wholesalers

NEW in every way - certain to sell!

NEW UNIQUE PRODUCT

Conditions, curls, vitalises the hair into beauty. Contains nutrients akin to sebum — the life-giving secretion of the hair. Leaves no deposit, oiliness, gumminess or stickiness.

NEW UNIQUE PACK

Shows the remarkable looking liquid through the carton, and tells a "sure sale" story at sight. Every woman who shakes the pack and sees the fascinating silken swirl will buy.

NEW ADVERTISING THEME

Wave set hair conditioner, vitaliser, and beautifier all in one.

11,850,000 women

will see powerful Tress advertisements in all the biggest selling women's magazines.



Order from your wholesaler now before May 17th when the advertising breaks.

TRESS

SETS, CONDITIONS, CURLS AND BEAUTIFIES THE HAIR

TRADE PRICES

Sells at 2/11d. per bottle, giving many applications.
Your cost: 14/3d. per dozen plus 100% purchase tax.
Your profit: 6/6d. per dozen.

ANOTHER WINNER!
from the famous French house of L'OREAL, Paris, who produced fast-selling **COLORAL**

FOR CHEMISTS



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SUNDRIES

Manufacturing Chemists

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KNOWN ALL OVER THE WORLD

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E' SONS LTD

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70 YEARS

CARTONS
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Siliplastine

BRAND ADSORBENT

is being currently advertised to the Medical Profession as a domiciliary treatment for exudative dermatoses. Supplies are available through your usual wholesaler.

In collapsible tubes 21/3d. dozen plus P.T. 33 $\frac{1}{3}$ %

Retail 3/3d. per tube

Literature is available to Pharmacists



SCIENTIFIC PHARMACALS LIMITED

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out of 10 Doctors are prescribing **ULTER**



N 3 MONTHS' TIME 9 out of 10 will be prescribing—

ULTER

Active Constituents : Bismuth Subnit. Mag Carb,
Sod. Bicarb. Frangula, Calamus.

PUBLIC DEMAND WILL INCREASE - ORDER NOW!

The smartest pack • finest tablet

• most forceful medical campaign

• best terms • highest profit in the trade

PRICES : 40's - - - 7/6 Inc. Tax 54/- doz. 100's 17/6 retail Inc. Tax 126/- doz,
500's Dispensing Pack 47/6 Tax free
1000's Dispensing Pack Tax free 90/- each

Special discount for Wholesalers and quick settlement

Wholesalers now stocking : **LONDON AREA.** SANGERS LTD., UNICHEM LTD.,
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& BRANSONS LTD., SMITH & HILL (Chemists) Ltd., **LANCASHIRE.** GEORGE
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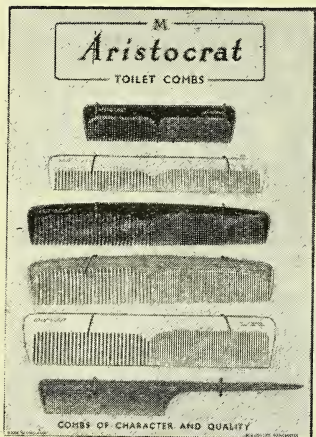
AND MORE TO FOLLOW

Boots & Taylors Branch Managers please note ULTER is in stock
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Wholesalers and Retailers, for best terms write to :—

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COMBS OF **QUALITY**



*Aristocrat . . . a quality comb
for the holiday trade*

*. . . yet so keen in price
that they sell in quantity*

Aristocrat Saw-Cut Toilet Combs, on this tasteful cream display card, will appeal to your customers who want an attractive comb of the best quality. Colours: Ivory, Crystal, Demi-Blond, and Assorted. Suggested retail prices: From 2/3 to 3/9 each.

Card (holding one dozen combs) **19/9 each**

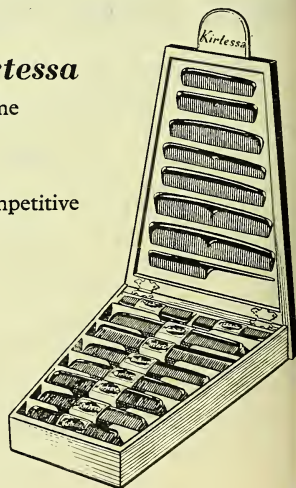
With an order for one gross of **Kirtessa**
Saw-Cut Shell Combs you receive this handsome
FREE DISPLAY CABINET

These are very attractive combs selling at a competitive price—ideal combs for your toilet trade.

Retail prices from 1/11 to 3/9 each.

Gross assortment (with free cabinet)	£9 10 6
Purchase Tax	£3 3 6
Total Selling price ..	£17 9 0
Your profit	£4 15 0

All orders carriage paid in free packages



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Beauty Treatment
means big business
for **YOU!**



Fast on the heels of the Cosmedin Beauty Lotion success come **Cosmedin Facial Pads**. Impregnated with cooling, refreshing Cosmedin lotion they are packed in neat, attractive little boxes — just right for the handbag—ideal for holiday use and travelling. Each box is mounted on a tiny individual display card. You have only to display this card and Cosmedin Facial Pads will sell themselves.

RETAIL PRICE 2/- EACH

Price per dozen 9/8.

P. Tax per dozen, 9/8.

13 to DOZEN Introductory Bonus

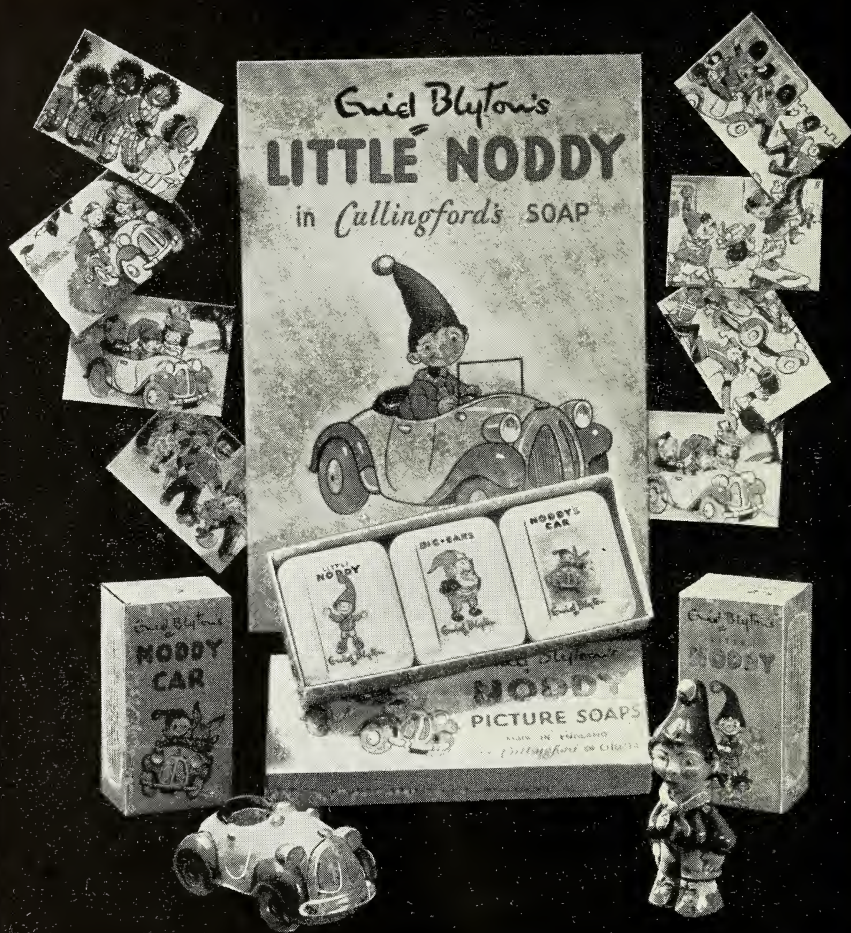
This offer is open to you until May 31st in return for (5½ x 3½) window display. Supplies and bonus direct or through your usual wholesaler.

Cosmedin

Face Cleansing Pads

ADDITIONAL ADVERTISING TO
1,000,000 women
STARTING NOW!
You will BUY where
you see it DISPLAYED
PLACE YOUR ORDER TODAY

Distributors — Dendron Distributors Ltd., 94 Rickmansworth Road, Watford, Herts.



Miss ENID BLYTON, Britain's leading writer for children, has granted CULLINGFORD OF CHELSEA the EXCLUSIVE licence to reproduce her most popular character, LITTLE NODDY, in toilet soap. Countless children throughout the United Kingdom are devoted to NODDY and the sales of Noddy Books in less than two years exceed 1½ million copies. Advantage should be taken of this ready-made demand by stocking the undermentioned NODDY lines, and repeat business is ensured by the coloured pictures which are packed in each NODDY box, so that children can collect the pictures (33 make a set), and paste them in the free album supplied by us direct to your customers when they send us 12 box tops of any NODDY Soap.

LINES AVAILABLE

LITTLE NODDY, handpainted, 12 full colour boxes per outer. Retail 2/3 each.
NODDY'S CAR, handpainted, 12 full colour boxes per outer. Retail 2/3 each.
LITTLE NODDY, unpainted, 12 full colour boxes per outer. Retail 9d. each.
NODDY'S CAR, unpainted, 12 full colour boxes per outer. Retail 1/- each.

NODDY PICTURE SOAPS, 3 tablets with full colour transfers of NODDY, NODDY'S CAR and BIG EARS, so applied to the soaps that the pictures will not wash off in use. Each box of 3 tablets, 1/10½ retail.

Usual trade terms from the Sole Distributors: Castle Soaps of Cambridge Limited, Riley Street, Chelsea, S.W.10.
 Telephone: FLaxman 1336. 7746.

Marchon

COMPLETE RANGE OF ANIONICS

*Economic in Price
Excellent in Quality*

SULPHATED PRIMARY ALCOHOLS
the Empicol range

ALKYL ARYL SULPHONATES
the Nansa range

EMULSIFIERS
the Empilan range

MARCHON PRODUCTS LTD
WHITEHAVEN Telephone: Whitehaven 650-1-2 and 797-8-9 **CUMBERLAND**
SALES OFFICES AT: LONDON, MANCHESTER AND BELFAST

AND REPRESENTATIVES THROUGHOUT THE WORLD

n.d.h./234

IF



5-16
OUR EX-
STAND
4/C12 AT
MPIA



JARVIE'S QUININE



Only the clear water of Scottish Lochs is used
in the crystallization of Jarvie's Quinine Salts

H. JARVIE & CO., LTD.
SCOTIA CHEMICAL WORKS
COATBRIDGE · SCOTLAND

Export Enquiries to
H. JARVIE & CO. LTD., Wigmore House
10 Duke Street, London, W.1

[Est. 1892]



Producers of all types of
SPUN RAYON YARNS

for towels, tapes, bandages,
gauze, lint and plasters
for the surgical dressing trade

—
All enquiries to:

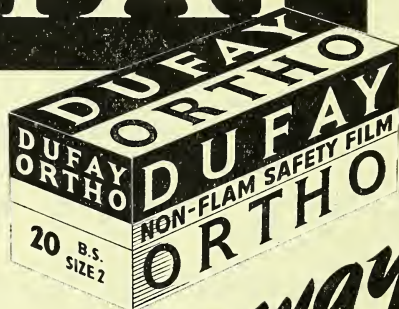
**FINE SPINNERS
& DOUBLERS LTD**

ST. JAMES'S SQUARE, MANCHESTER 2

Telephone: Blackfriars 8686

Telegrams: Distaff, Manchester

DUFAY



leads the way!

NEW PRICE



8 EXPOSURES

FOR BEST HOLIDAY SNAPS



with DUFAY films

FULL PAGE National Advertisements



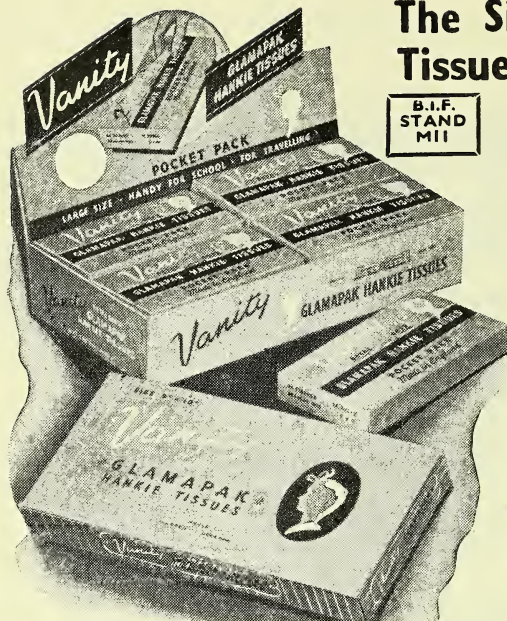
Campaign opens May 18th

In one week, beginning Sunday, May 18, two national newspapers and the most widely read women's national weekly will carry *full-page* advertisements of '4711' Eau de Cologne, Matt Cremes and Talcum. Throughout Great Britain and Northern Ireland the campaign will continue with large scale, frequent advertising in national and provincial publications.

May 18— the time for '4711' displays

To obtain the maximum effect arrange your '4711' window display to coincide with the opening of the press advertising. In addition to existing display cards you can obtain a new window centre piece, specially designed on the theme of the 1952 campaign. Reprints of the full-page press advertisements are also available. Write for them.

R. J. REUTER COMPANY LIMITED · SLOUGH · BUCKS



The Silky Soft Absorbent
Tissue that is preferred

Vanity
HANKIE TISSUES
RETAILS FROM 1/6d.

Tissues have come to stay—it's just a case of selling the BEST to make and keep customers. VANITY are produced by THE PAPER SPECIALISTS — packed attractively and come to you in display cartons worthy of your windows and counters.

POCKET PACK for Travel, School, etc.
(24 large size White Tissues) 5d.

BOUDOIR CARTONS (100 in White or assorted Pastel colours) or Cellophane Wrapped 100 and 180; assorted shades if required.

FREEDER BROTHERS PAPER MILLS
BRIMSDOWN. ENFIELD. MIDDLESEX

Telephone: Howard 1847 (3 lines)
Telegrams: Sylkocrepe, Enfield, Middlesex



for
fine chemicals
especially:

ASPIRIN B.P. "FRE-FLO"
CITRIC ACID B.P.
SALICYLIC ACID B.P. & TECH.
SODIUM SALICYLATE B.P.
TARTARIC ACID B.P.
VANILLIN 100%

H. W. GRAESSER-THOMAS LTD
49 LEADENHALL STREET,
LONDON, E.C.3
TELEPHONES: ROYAL 3011 - 6111

RASPBERRY
SYRUP New N.F., B.P.C.
3/9 lb.

Liquor pro Raspberry Syrup

(conc. 1-7 dilute with Syrup B.P.)

Post Paid 4 ozs. **7/6** Cash

In Demand || 1 lb. **27/6** W.O.



COST:

10/6 Doz. plus Tax.
3 Dozen Carr. Paid 14 to
Doz. - 6 Doz. and over. Also
5 lb. Show Jars

Containing:
AMYL. META. CRESOL

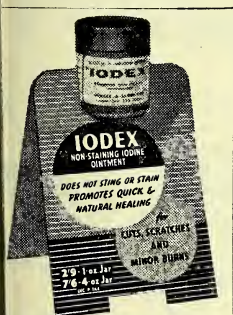
JAMES HART (Chemists) LTD.
Newport Street BOLTON

**For more than 40 years
'Iodex' has maintained
its sales**



EH

Effective showcards that take up little space on your counter are included in every box of one dozen 1-oz. jars, or may be had on request. Display them and reap the benefit from the increased sales.



RETAIL PRICE :

1-oz. jars 2/9 each
including P. Tax

4-oz. jars 7/6 each
including P. Tax

'Iodex'

'Iodex' *cum Methyl Salicyl.*

non-staining

iodine

ointment

★ millions of housewives
will be noting
these advertisements



from
PORTSMOUTH
(PORTSMOUTH EVENING NEWS)
to
ABERDEEN
(THE EVENING EXPRESS)

Selling
the ORIGINAL — GENUINE



HOT WATER BOTTLES

with the patented closure
that safely seals by suction



Two representative Showcards in colour



among these anonymous millions are potential customers for YOU. This winter profit is yours only if you are adequately stocked with these swift selling bottles. National coverage by the Press is backed by attractive display material to remind the customer in your shop.

Send today for the illustrated catalogue of the **SUBA-SEAL** range of HOT WATER BOTTLES, Pharmaceutical and Chemist's Sundries.

FUN IN THE BATH
and no bedtime tears...
it's a hot water bottle!

and so are these novelties from the range of models—designed around the SUBA-SEAL closure that safely seals by suction. The safest and warmest of bedmates for your children. Sold by Chemists and Hardware Shops.

the ORIGINAL GENUINE **SUBA-SEAL**

Ask also for the SUBA-MAID Household Ware in ALL MADE BY WM. FREEMAN & CO. LTD. BARNLEY

What goes HERE?

Why! a **SUBA-SEAL** HOT WATER BOTTLE for lovely, lusty you to slumber warmth—in fairness to ten pairs of winter toes, make it two bottles. See the full range in their attractive colours at your chemist or hardware shop.

The 'Suba' STRAHLMEIER cunningly ribbed, radiates warmth the long night through, pleasant to the touch without a cover. The 'Suba' COT is the perfect miniature for cot or pram where none but the best is good enough.

Two's company

Welcoming **SUBA-SEAL** warmth converts many a "late bedder" especially when there is a bottle EACH for individual comfort—bringing complete and luxurious harmony. Your chemist or hardware store will be proud to show you the range of models in attractive colours.

the ORIGINAL **SUBA-SEAL** GENUINE

safely sealed by suction

SUBA-MAID HOUSEHOLD WARE IN RUBBER

MADE BY WM. FREEMAN & CO. LTD. BARNLEY, YORKS

Write to

WILLIAM FREEMAN & COMPANY LIMITED

SUBA-SEAL WORKS
PEEL STREET - BARNLEY - YORKS
TELEPHONE - BARNLEY 4081
TELEGRAMS : SUBASEAL, Barnsley

THE LUCK OF THE DRAW!



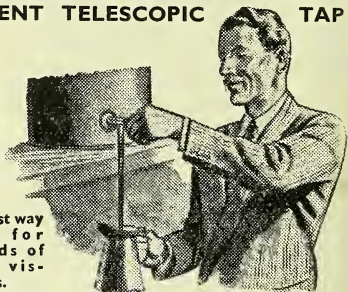
HOW TO DRAW A DROP OF OIL

Tilt drum, forgetting to remove cap. Un-tilt drum, remove cap, wipe oil off collar. Tilt drum, drop spanner on foot. Replace drum, retrieve spanner, de-oil sleeve. Tilt drum, kick jug. Anoint feet with oil, lose temper. Replace drum, replace jug, replace feet. Half fill jug with oil. Replace drum, half fill top with oil. Replace filler cap, wipe drum top with tie. Replace spanner on drum. Bath and change suit.

...OR

Draw out "Phillescope" Tap . . . fill measure with oil . . . push in Tap.

"PHILLESCOPE"
PATENT TELESCOPIC TAP



The best way
out for
liquids of
most vis-
cosities.

Taps for most liquids supplied by all leading up-to-date drum makers or from:—

PHILLIPS TELESCOPIC TAPS LTD

Hampton Works, Vittoria Street, Birmingham, 1
Phone: CENtral 2870. Grams: Tapescope, Birmingham

B.I.F. BUYERS

Exhibition of
Sunglasses, Combs,
Imitation Jewellery
FOR EXPORT MARKETS

Trade buyers visiting London during the B.I.F. are invited to call and inspect the special display of the new season's Thurgar Bollé Sunglasses, Combs, Imitation Jewellery and Hair Ornaments at the Company's West End Showrooms. 96, REGENT STREET, LONDON, W.1.

Thurgar Bollé

THURGAR BOLLÉ LTD.

Orient House, Church Way, Wellingborough, Northants
London Showrooms: 96 REGENT STREET, LONDON, W.1

T.F. 147

INSIST ON

Flexoplast
Regd. BRAND

**ELASTIC ADHESIVE
BANDAGES**

- 
- Non-Fray — Non-Fluffy Woven edged.
- Conveniently packed in tins 2" x 3 yds., 2½" x 3 yds. or 3" x 3 yds.
- In constant demand by leading hospitals and institutions.

A product of

EDWARD TAYLOR LTD. . MONTON . LANCs

ACIMETION

DL-METHIONINE

The only essential sulphur-containing amino acid

Indicated in toxic hepatitis, hepatic cirrhosis, secondary anaemias, purpura, jaundice and debility.

Issued in bottles of 50 and 250 tablets each containing 0.25 G. DL-Methionine.

P.A.T.A PRICES

50 tablets 10/6d.

84/- per dozen

250 tablets 47/3d.

378/- per dozen

(Both sizes exempt Purchase Tax)

CONTINENTAL LABORATORIES LTD.

101, Great Russell Street, London, W.C.1.

Telephone : MUSeum 2042-3

Telegrams : Taxolabs, Phone, London.

MEDICAL AND SURGICAL PLASTERS

Prices have remained constant since January 1st. 1951. Packings with a large cotton content will be slightly reduced in price as from May 1st 1952, by arrangement with the Ministry of Health. New price lists will be issued by the undermentioned firms at the earliest possible date.

CUXSON GERRARD & CO. LTD., OLDBURY, BIRMINGHAM

DALMAS LIMITED, LEICESTER

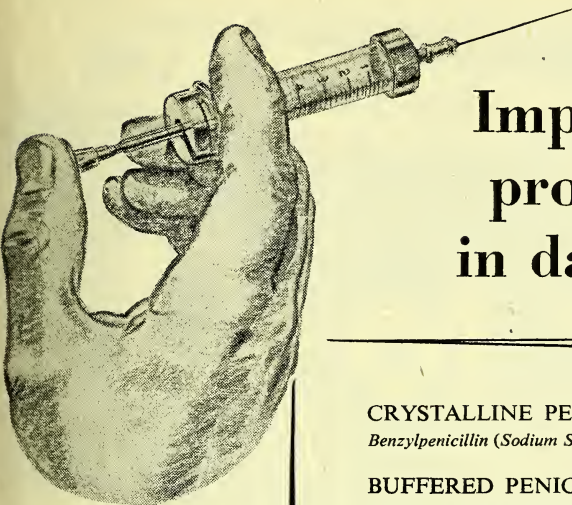
HERTS PHARMACEUTICALS LTD., WELWYN GARDEN CITY

JOHNSON & JOHNSON (GT. BRITAIN) LTD., SLOUGH

LESLIES LIMITED, LONDON

T. J. SMITH & NEPHEW LTD., HULL

EDWARD TAYLOR, LTD., MONTON



Important products in daily use

CRYSTALLINE PENICILLIN G

Benzylpenicillin (Sodium Salt) of the highest purity

BUFFERED PENICILLIN DC(B)L

*An improved presentation of soluble penicillin—
more stable in solution*

'DISTAQUAINE' G
brand

'DISTAQUAINE' FORTIFIED
brand

'DISTAQUAINE' SUSPENSION
brand

*Preparations of procaine penicillin G
for administration in aqueous suspension*

STREPTOMYCIN DC(B)L
DIHYDROSTREPTOMYCIN DC(B)L

*Sulphates of the pure antibiotics in vials of one
mega unit the equivalent of one gramme of base*

Distributed by:

Allen & Hanburys Ltd.

British Drug Houses Ltd.

Burroughs Wellcome & Co.

Evans Medical
Supplies Ltd.

Imperial Chemical
(Pharmaceuticals) Ltd.

Pharmaceutical Specialities
(May & Baker) Ltd.

Distributed by:

Burroughs Wellcome & Co.

Evans Medical
Supplies Ltd.

Imperial Chemical
(Pharmaceuticals) Ltd.

'DISTIVIT' B₁₂
brand

Sterile aqueous solution of vitamin B₁₂

Manufactured by

THE DISTILLERS COMPANY
(BIOCHEMICALS) LIMITED

SPEKE

LIVERPOOL

*The trademarks, 'Distaquaine'
and 'Distivit' are the property
of the manufacturer*

Special offer by Dalmas Ltd.

8/- to £1
EXTRA PROFIT FOR YOU!

During May and June

**Don't miss this great
money-making opportunity**

DURING May and June, the makers of Dalmas are offering you a unique money-making opportunity.

Special £10 and £5 parcels of Dalmas and Dalzo-Lastic First Aid Dressings will be available on which, as well as the usual discount, you are offered *another additional 5% discount*. These special terms, which will bring you extra profits of 8/- to £1, are offered in exchange for a fortnight's display of the attractive counter cards or sell-out devices included with the parcels.



Full details and order forms for this exciting offer have been sent to chemists by direct mail. If yours has not reached you, write off now to: Dalmas Ltd., Leicester.

This offer holds good for May and June only, so be certain not to miss *your* share in these big new profits!

DALMAS LTD.
LEICESTER

Breathtaking News!

Kerofil

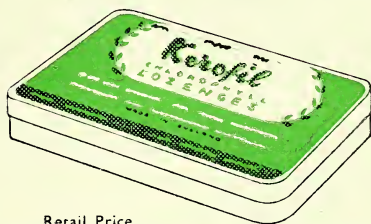
LOZENGES AND TOOTHPASTE



These two important products eliminate bad breath and body odour. They are elegantly packed and will sell on sight. Attractive quantity terms available.



Retail Price
1/8d. per tube



Retail Price
1/9d. per tin

CHLOROPHYLL

FROM TWO NEW ANGLES

THOMAS KERFOOT & CO. LTD.

VALE OF BARDSLEY, LANCASHIRE



One of
Ransom's
Henbane
fields

Ransom's extract of Hyoscyamus is produced from plants grown on the Company's own farms. It owes its high quality to the extreme care of its manufacture.



Quality is born of Experience

The finest vegetable drugs and galenicals come only from the finest plants. Cultivation of medicinal plants is an art that comes only from long experience. It is because Ransoms of Hitchin have specialised in drug growing for over a century that the name Ransom has become synonymous with unsurpassed quality in drugs and galenicals in all parts of the world.

Actual growers of belladonna, henbane, foxglove, chamomile, peppermint and lavender

Established 1846

WILLIAM RANSOM & SON LTD.
Hitchin Hertfordshire England

Look
to your
CALAMINE
LOTION
stocks
NOW!

Don't wait till the mercury
climbs before ordering your
stocks of CALAMINE
LOTION as manufactured
by Potter & Clarke Ltd.
Attractively packed in
4 oz. bottles.



POTTER & CLARKE LTD.

60-64 ARTILLERY LANE, LONDON, E.1

Phone : BISHOPSGATE 4761

Grams : Horehound, Phone, London

77 DANTZIC STREET, MANCHESTER

Phone : BLACKFRIARS 8734

Grams : Horehound, Manchester

62 ORBISTON STREET, MOTHERWELL

Phone : MOTHERWELL 1413

Grams : Horehound, Motherwell

Agents in Northern Ireland.

HAROLD MITCHELL & CO. LTD., 321 GROSVENOR RD., BELFAST. Tel: 24356

We're planning a RECORD YEAR for Optrex

A BIGGER MARKET

One market trend you can rely on this year is a growing demand for Optrex. Surveys show that in every walk of life the importance of eye sight and eye-care is becoming more and more widely realised—both in the home and in industry. And speaking of industry reminds us that many thousands of people will soon be going into rearmament work—into conditions of greater eyestrain, greater need for Optrex. The potential market for Optrex is undoubtedly bigger than ever.

BIGGER ADVERTISING

Big new campaigns will be working for you this year in the great National newspapers and magazines and the Provincial Press, building demand for Optrex in every town and village in the country.

AND BIGGER SALES

You can turn this extra demand into bigger sales simply by making good window and counter displays. There's a wealth of fine display material available. It is bright, colourful and sales-compelling—and it's yours for the asking. Order good stocks now and make it a record year. You will need too a good supply of Optrex Eye Baths and Optrex Eye Compresses.

THIS YEAR—

STOCK MORE

DISPLAY MORE

AND SELL MORE

Optrex

KELDON LTD · PERIVALE · MIDDLESEX





A BONUS

in

BRONTAN
SUN-TAN CREAM

Thirteen for every dozen on orders of three dozen and over—these are the special bonus terms for BRONTAN, and they mean a profit for you of nearly 8d. on every tube sold (trade price 24/- doz. inc. tax; retail 2/6 each). It's a holiday-makers 'must,' and they'll be asking for BRONTAN by name. Here's a big seller with a bigger margin for you if you order on these advantageous bonus terms.

All orders to sole Distributors:—

ALFRED FRANKS & BARTLETT CO. LTD.

Britain's Largest Sun-glass Distributors.

AUDREY HOUSE, ELY PLACE, LONDON, E.C.1.

Phone: HOLborn 1078/9



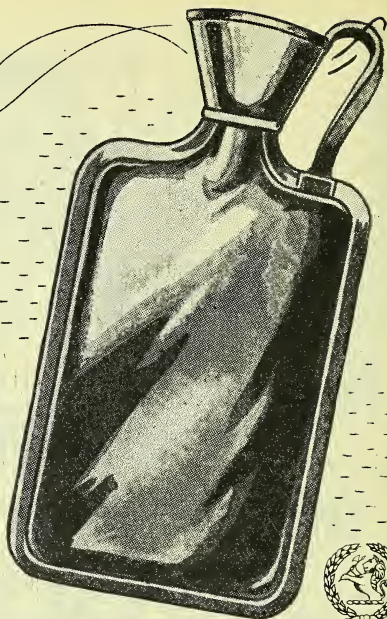
Hand-made type bottles reinforced with fabric (strongly preferred by hospitals and discriminating buyers) available in red or white. Moulded hot water bottles also available in blue, green or red.

Further details and terms from :—

**DAVID MOSELEY & SONS LTD., ARDWICK
MANCHESTER, 12**

55 NEW BOND STREET, LONDON, W.1

54 GEORGE ROAD (ISLINGTON ROW) EDGBASTON, BIRMINGHAM 15



MB. 2

11,000,000 WOMEN WILL SEE THIS ADVERTISING



Regular advertising in all the women's weekly and monthly publications is building up a big demand for these Adelaide Grey Proprietaries. Order a stock today.

WAX-A-WAY & COOLWAX DEPILATORIES

'Laleek' Wax-a-Way recommended for facial treatment is definitely the most satisfactory Wax Depilatory marketed today. It retails at 8/7 including Tax. 'Laleek' Coolwax is for use on the arms and legs. Economical to use and most effective. Retail at 5/9 including Tax.

LOGLASH & EYE COSMETIC

Adelaide Grey's 'Laleek' LOGLASH, famous for years as the leading line in the field, retails at 2/1. 'Laleek' Eye Cosmetic attractively packed in its new round container complete with brush, retail 4/6, is rapidly growing in popularity.



BEAUTY PREPARATIONS

ADELAIDE GREY, 30 OLD BOND ST., LONDON, W.1

1,350 KLEENEX tissues a year for every Canadian!



That's a lot of Kleenex* sold in Canada—but only a drop in the bucket compared to the terrific sales potential for Kleenex in Britain, with more than three times Canada's population!

• STOCK and DISPLAY Kleenex NOW! Kleenex—to be backed by the biggest advertising campaign in the history of tissue handkerchiefs in Britain. *Regd. Trade Mark.

RETAIL PRICE

150	ECONOMY SIZE TISSUES (75 pulls) 8 $\frac{3}{4}$ " $\times$ 6 $\frac{3}{4}$ "	1/-
200	REGULAR SIZE TISSUES (100 pulls) 8 $\frac{3}{4}$ " $\times$ 9 $\frac{3}{4}$ "	2/-

MADE IN ENGLAND BY CELLUCOTTON PRODUCTS LTD., 33 AYLMEYER PARADE, N.2

PLACE YOUR ORDER THROUGH YOUR WHOLESALE TODAY!

2 reasons

why *Wisdom*^{REGD.} is the most profitable toothbrush line to stock



TWICE-AS-QUICK TURNOVER

WISDOM is easily the largest-selling toothbrush, and it turns over roughly twice as quickly as its nearest competitor. So when you invest in Wisdom, you get your return back twice as soon. And Wisdom bonus schemes give you the biggest margin, too.



MOST ATTRACTIVE DISPLAY

MOST chemists agree that Wisdom display is more colourful, attractive and hard-selling than that for any other toothbrush. Put the Wisdom Merry-go-Round on your counter, and see how it peps up your toothbrush sales.

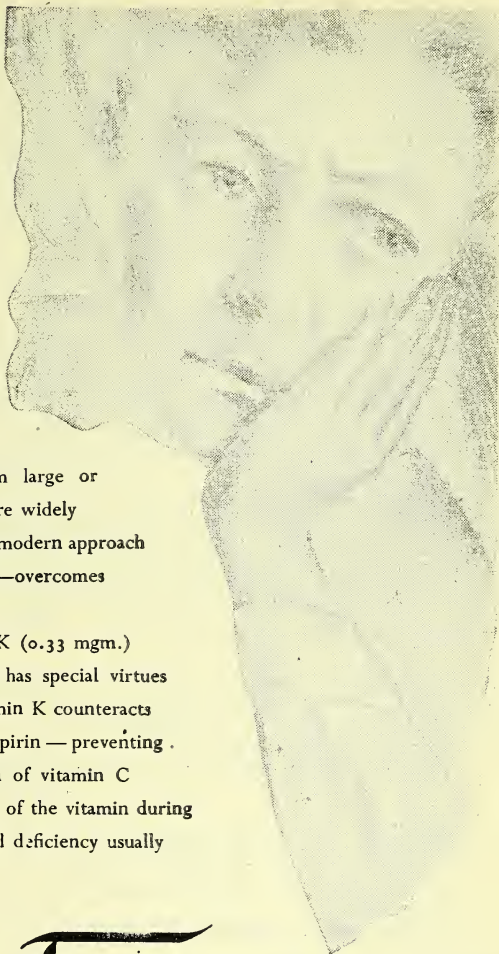
You need never be afraid to carry sizeable stocks of Wisdom. Turning over so quickly, it never sticks on your shelves.

Be wise —
sell *Wisdom*^{REGD.}

THE QUICKEST-SELLING TOOTHBRUSH



Safer salicylate therapy



The possibility of toxic reactions from large or continuous doses of salicylates is now more widely recognised. Doctors are finding that the modern approach to salicylate therapy—using EKAMMON—overcomes these serious sequelae.

Containing aspirin (0.33 gm.), vitamin K (0.33 mgm.) and vitamin C (20 mgm.), EKAMMON has special virtues as an analgesic and anti-rheumatic. Vitamin K counteracts the prothrombin-reducing action of aspirin—preventing haemorrhagic tendencies. The addition of vitamin C compensates both the increased excretion of the vitamin during salicylate medication and the ascorbic acid deficiency usually associated with rheumatic patients.

Containers of
50 and 100 tablets.
Dispensing packs:
500 and 1,000 tablets.

Ekammon

WARD, BLENKINSOP & CO., LTD.

6, HENRIETTA PLACE, LONDON, W.1.



Makers of Viacutan for Varicose Ulcers



N.V. SOCIETEIT VOOR
CHEMISCHE INDUSTRIE

"KATWIJK"

KATWIJK - AAN - ZEE
HOLLAND

Producers of:

CAFFEINE AND SALTS

THEOBROMINE AND SALTS

THEOPHYLLINE AND SALTS

London Agents:

GREYER, BRECHEISEN & CO., Ltd.

BUSH LANE HOUSE, CANNON STREET
LONDON, E.C.4. Telephone: MAN 9030

Bombay Agent:

STANDARD DRUG & CHEMICAL CO.
174 Hornby Road, Fort, Bombay

Calcutta Agent:

H. D. NAG, 36 Beniatola Lane, CALCUTTA

Madras Agent:

**THE DOLLAR CO., 337 Thambu Chetty St.,
G.T. MADRAS**

JKL

Agar Agar
Aloes
Cantharides
Cascara Sagrada
Cochineal
Condurango Bark
Ergot of Rye
Grindella Herb
Liquorice
Lobelia Herb
Papain
Peppermint Oil
Sabadilla Seed
Sarsaparilla
Wild Cherry Bark
Witch Hazel Leaves
and all other Botanicals,
Gums, Waxes, Essential Oils
and Spices

JOHN KELLYS (LONDON) LTD.

Gresham House, 24 OLD BROAD STREET, E.C.2

Telephone: London Wall 4882, 6585, 6586

Telegrams: "Ergotine, Stock, London"

Branches in New York and Hamburg

GALENICALS, TABLETS, PACKED GOODS

and all supplies for Health Service and Counter Trade

Our own vans cover the Midlands



Phone: LEICESTER 5671

E. H. BUTLER & SON LTD

THORNTON LANE AND

HUMBERSTONE GATE, LEICESTER

Telegrams:

AMPHORA LEICESTER

TANNIC ACID

AND DERIVATIVES

(Bulk
Supplies
Only)

THE BRITISH DYEWOOD COMPANY LIMITED
19 St. VINCENT PLACE, GLASGOW, C.1



QUALITY AND SERVICE

for
**GALENICALS TABLETS
CAPSULES INJECTIONS
PENICILLIN PREPARATIONS**

DUNCAN, FLOCKHART & CO., LTD.
EDINBURGH & LONDON

AN ALL COTTON WOOL PRODUCT OF REPUTE

Consolux
Patent No. 410702
(Registered)

**SUPERFINE QUALITY
ALL WOOL SANITARY TOWELS**

**LOOPED ENDS
NON-ABSORBENT BACK
WHOLESALE ONLY**

ROBERT BAILEY & SON, LTD.
SURGICAL DRESSINGS MANUFACTURERS
DYSART STREET, GREAT MOOR, STOCKPORT
Phone: STEPPING HILL 3006/7 Grams: "UNDISPUTED" STOCKPORT

"SURCO"

RELIABLE

ELASTIC HOSIERY

SEAMED AND SEAMLESS

SURGICAL BELTS

TRUSSES AND SUNDRIES

*Over 50 years' service of
everything Surgical*

SURGICAL HOSIERY CO. LTD.

Russell Street - NOTTINGHAM
Telephone No. 75903 Telegrams: Surgical Nottm



BROMINE PREPARATIONS

POTASSIUM BROMIDE

SODIUM BROMIDE

AMMONIUM BROMIDE

POTASSIUM BROMATE

ETC.

BIF



MAY 5-16

EARLS COURT & OLYMPIA
LONDON

SEE OUR EXHIBIT

OLYMPIA Stand C.24

WHIFFEN'S

FINE CHEMICALS

WHIFFEN & SONS LTD., FULHAM, LONDON, S.W.6

Telephone: RENown 3416. Telegrams: Whiffen, Walgreen, London

a rare case...

...once classified as

the 'common-or-garden'

container, but likely

to become a not-so-common

specimen through

near-extinction of

the raw materials needed to

produce new cases. So the

only way to ensure continu-

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bring you is to preserve

all good quality C.R.S con-

tainers for re-use. The C.R.S

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CALCIUM GLUCONATE
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Supplied in 1-oz. and 2-oz.
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Ounces and Drachms.

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Use U.M.P. COLLAPSIBLE METAL TUBES

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U.M.P. COLLAPSIBLE TUBE FILLING UNIT

This unit consists of Tube Filling Machine, Tube Closing Machine and Tube Crimping Machine. Please write for particulars and descriptive leaflet.

We are also moulders of PLASTICS to the Trade by injection and compression methods



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Ribbed Oval..

The new Beatson Ribbed Oval carries on the tradition of the increasingly popular Beatson Medical.

Available in a wide range of sizes both Cork Mouth and Screw Neck, with either White Enamelled or Black Bakelite Caps.



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Specialists in modern equipment for manufacturers, i.e., Funnels, Buckets, Jugs, Mixing Containers, Measures, Percolators, Boggles, etc., etc.

Suppliers of Stainless Steel utensils, at prices which enable the user to employ them in place of other metals as an economical proposition.

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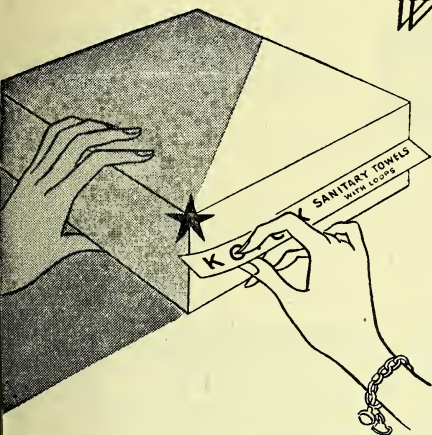
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*Women prefer***KOTEX****SANITARY TOWELS**

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★ *Simply remove the perforated strip and the plain box is ready for sale.*

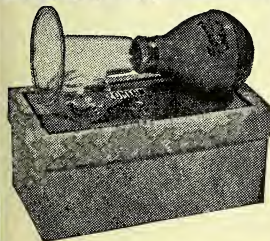
Because demand exceeds supply,
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Every woman wants bathtime luxury and day long freshness—sell her delicately perfumed mildly medicated Cuticura Soap and Talcum Powder. Many of your customers have a “problem skin”—Cuticura Ointment is the perfect answer.

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A medically-prescribed product for the treatment of

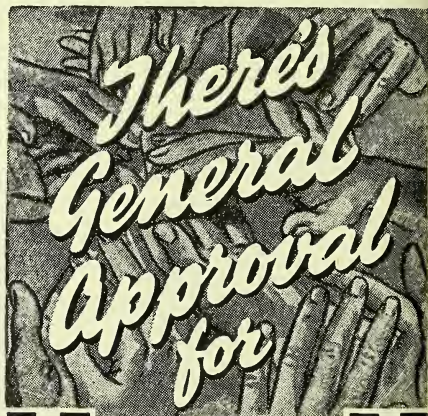
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Diuiromil is an ethical product regularly prescribed by doctors all over the country. It is an effervescent granular preparation of palatable taste, the formula including Piperazine and Lithium, which, acting together, are twice as effective as solvents of Uric Acid as Piperazine alone. Diuiromil mobilises, eliminates and prevents precipitation of Uric Acid.

Regularly advertised in the medical and nursing press, but may be recommended and sold without medical prescription.

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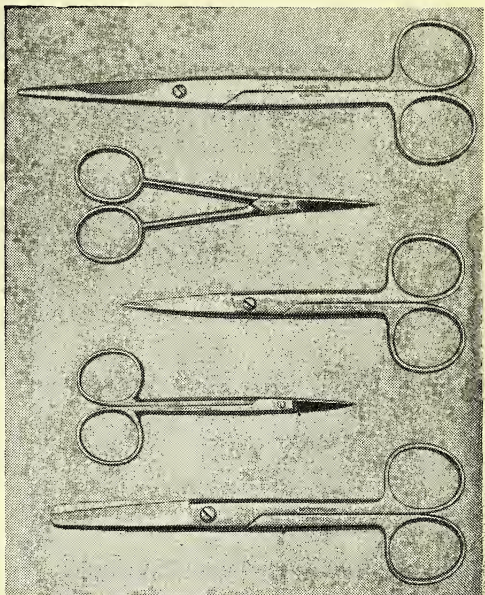
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Finest quality Sheffield Steel, expert craftsmen,
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Of special interest to Diabetics

SINCE no sugar is used in the making, these refreshing fruit drinks can be enjoyed by diabetics. Rose's Diabetic Lime Juice costs 3/6d. a bottle. The Fruit Squashes—orange or lemon—are 3/- a bottle.

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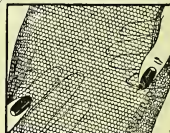
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Analgesic and Antipyretic Tablets

Packs: 10, 50, 125, 250, 600 and 1,000

*Formula:—Acid Acetylsalicyl. 40.22%: Phenacet. 48.00%: Caffein. 2.00%: Codein. Phosph. B.P. 0.99%: Phenolphthal. 1.04%: Excip. 7.75%: (Each tablet 8 grains).***ELIXIR CEREVON**

Hæmatinic Compound.

Packs: 4-oz. and 8-oz.

*Formula:—Each teaspoonful contains: Ferrous Gluconate 0.3% gm.: Aneurin. Hydrochlor. 1 mgm.: Riboflav. 1 mgm.: Nicotinamid. 10 mgm. With trace elements of Copper and Manganese.***DRAPOLENE CREAM**

For Urinary Ammonia Dermatitis.

Pack: 2-oz. jar. 4 lb. Dispensing jar.

*Formula:—Benzalkonium Chloride 0.01%: Cetrimid. 1.00%: in a water miscible base.***CALPED**

Fungicidal Cream and Powder

Packs: Cream—2-oz. jars.

Powder—4-oz. drums.

*Formula: Cream:—Parachlorophenylether 0.5%: Phenylmercuric Nitrate 0.004%: Acid Salicylic 0.01%: in a Bentonite Cream base.**Powder:—Parachlorophenylether 2%: Phenylmercuric Nitrate 0.004%: in a Talc and Amylum Powder base.***CIMLAC GAUZE**

COMPOUND AMINACRINE TULLE

Medicated Wound Dressing

Packs: PRESCRIPTION—10 pieces

3½" × 3½" in carion each piece separately heat-sealed and enveloped.

*Formula:—Aminacrin. Hydrochlor. 0.1%: Hexyl-resorcin. 0.1%: in a sterilized glyco-gelatin base.***CALMIC
LIMITED**

The strut behind every 'ASPRO' display

**THE BEST
SELLER
ON THE
COUNTER**



WHEN displays are backed with continuous national advertising—that's when they sell! Here's the support your 'ASPRO' display is getting:

'ASPRO' films are showing in cinemas all over Britain.

Large 'ASPRO' advertisements are continuously appearing in Britain's National, Provincial and Magazine press.

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Which means that THE PUBLIC will be getting the 'ASPRO' message everywhere. That is why

**NATIONAL
ADVERTISING**

'ASPRO'

DISPLAYS ARE SELLING DISPLAYS!

Made by ASPRO LIMITED, Slough, Bucks

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**Specialists
in the
Manufacture
of
Compressed
Tablets**

The
Cooper Laboratory
Limited

Kindly note our new address
to which all communications
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3 reasons why you should increase your stock of Amm-i-dent

1 Amm-i-dent is now backed
by really large scale
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2 Every day more and more
dentists recommend
Amm-i-dent (10,000 have
now tested it).

3 It is the ammoniated
toothpaste which has been
officially shown to reduce
decay by nearly half.
Already you will have noticed
the increased demand.



*** DON'T RUN
SHORT OF STOCK**

**ORDER SUPPLIES
THROUGH YOUR USUAL WHOLESALER**



We invite your enquiries and orders for

**DRUGS, GALENICALS,
TABLETS, OINTMENTS,
SULPHA DRUGS,
HYPODERMIC NEEDLES,
CLINICAL THERMOMETERS,
SURGICAL PLASTERS,
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WHOLESALE AND MANUFACTURING CHEMISTS
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*Post orders executed promptly
Daily delivery service in the
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NATIONAL FORMULARY 1949

**PASTILLES
and LOZENGES are
always in ample
supply from**

**ROBERT GIBSON
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MANCHESTER & LONDON

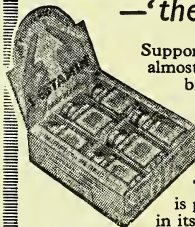
Manufacturers of
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GIBSON'S CHOCOLATE WORM CAKES

DENTAL STICKS ARE AVAILABLE

Dental Sticks are manufactured from various types of specially selected soft and hard woods and also from whalebone and are intended entirely for massaging the gums between the teeth.

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National Advertising sells **YESTAMIN** —'the wonder food'



Supporting foremost dieticians' almost daily references to dried brewers' yeast—"the wonder food"—powerful and continuous national advertising is bringing YESTAMIN before an ever-widening market. Tell the public: "Here is pure dried brewers' yeast in its most convenient form."

One of these compact, sales-making display outers is well worth a place at the point of sale—that's YOUR counter and window!

100 Tablets Retail 1/10½ Trade 15/9 per doz.
300 Tablets Retail 4/9 Trade 40/- per doz.

YESTAMIN
DAILY YEAST

The English Grains Co. Ltd., Burton-on-Trent.

Bottle-fed babies -



THE Pharmacists' advice

Confronted, as he often is with a request for advice upon digestive disturbance when baby is bottle-fed, the Pharmacist may confidently recommend the use of * 'Milk of Magnesia'.

This antacid laxative checks the formation of indigestible protein curds and enables digestion to proceed with comfort.

Thus the baby is contented, receives full nutritional value from each feed and thrives.



'MILK OF MAGNESIA'

REGD. TRADE MARK *

THE CHAS. H. PHILLIPS CHEMICAL CO. LTD.,

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5% EXTRA PROFIT! FROM PLASTERS!

Available only until July 31ST

For the months of May, June and July, in consideration of your agreeing to display our range of plaster specialities for two weeks, we offer an additional 5% discount on orders over £5

SUGGESTED PARCELS

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£	s.	d.	Doz.		Doz.	£	s.	d.
2	5	0	6	*Carnation Corn Caps	12	4	10	0
19	3		3	9d. Tins Adaptoplast	6	1	18	6
12	10		1	1/6 " "	2	1	5	8
7	6		1	*Carnation Callous Caps	2	15	0	
8	6		1	1/- Tins Adaptapruf	2	17	0	
				Waterproof First Aid Dressings				
9	9		1	*Sanoid Boil Treatment	2	19	6	
				Adaptoplast Strip Dressing				
12	2		$\frac{1}{2}$	1 yd. x $2\frac{1}{2}$ "	1	1	4	4
4	6		$\frac{1}{4}$	1 yd. x $1\frac{1}{2}$ "	$\frac{1}{2}$	9	0	
5	19	6				11	19	0
3	0			Less $2\frac{1}{2}\%$ Ordinary Terms less 5%		11	11	
5	16	6				11	7	1
5	10			Less 5% Special Discount less 5%		11	4	
5	10	8				10	15	9
1	0	9		*Purchase Tax		2	1	6
6	11	5				12	17	3

The above parcels may be varied provided they include not more "Carnation" Corn Caps and not less "Adaptoplast" than the stated quantities, and pro rata for larger orders.

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This special 5% Discount will be in addition to the normal 2 $\frac{1}{2}$ % on £5 parcels and 5% on parcels of £10 and over.

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We specialise in the manufacture of glass containers for the Drug Trade and the wide range of industries associated therewith. An immense variety of moulds are available. We shall be pleased to advise on any glass packaging problem.

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ortho-hydroxy benzamide



Salicylamide is the amide of salicylic acid. It is a white crystalline substance, similar in physical characteristics to aspirin and salicylic acid. Sparingly soluble in water.

Actions and Uses.

Salicylamide is an analgesic indicated principally in rheumatoid arthritis, rheumatic fever, fibrositis and osteoarthritis. Absorption from the gut is rapid and it diffuses into the tissues without significant irritant effect on the gastric mucosa. Salicylamide shows a decrease in prothrombin-time as compared with the increase produced by common salicylates. Its chronic toxicity is considerably less than that of aspirin or sodium salicylate; its analgesic effect is higher.

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Powder 250 gm 1 kilo.

Literature on request. Special prices for Hospitals.

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 Nicotinamide
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Oestrone
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 Penicillin
 Phenobarbitone
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 Quinine Salts
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For Safe Control of Body Odour & Bad Breath

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Nature's Deodorant



Where ever you go, whatever you eat,
Whatever you do, in cold or in heat,
You'll never offend though strenuous
the feat,
Odoban keeps you safe from your
head to your feet.

Bottles of 30 tabs. (2/- ea.) 13 - doz } Plus
,, 100 ,, (5/- ea.) 33/- ,, } P.T.

A daily dose will protect you against unconscious offence to others and bolster your self confidence and poise.

Odoban is the natural enemy of body odours which often resist ordinary measures of personal hygiene and cleanliness.

Odoban acts internally and helps to eliminate body and breath odours at their source.

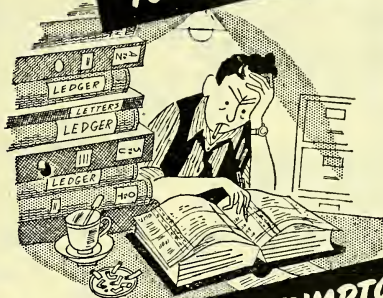


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FOR ACID INDIGESTION



FOR HEADACHES



FOR COLD SYMPTOMS



FOR MUSCULAR ACHES & PAINS



**Somebody's
going to need
Alka-Seltzer!**

Be Prepared!

Check your stock NOW

These eye-catching illustrations geared
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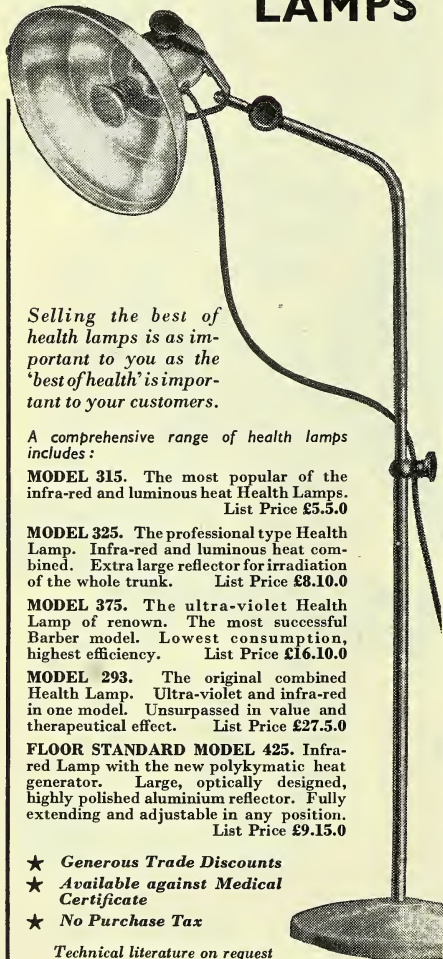
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- ★ Available against Medical Certificate
- ★ No Purchase Tax

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LIMITED**

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DARK *with*
SHADEINE

— Your **SALES** are assured if
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Still the best hair tint. In all natural shades. Stocked by all wholesalers. Trade prices—1 oz. 18/- per doz., 2 oz. 29/7 per doz. Purchase Tax 100%. Retail Prices 3/6 and 5/9 per bottle respectively. Also the new **GOLDEN SHADEINE** for lightening mousey hair. 2 oz. 18/- per doz., Purchase Tax 100%. Retail Price 3/6 per bottle.



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It is our policy to direct sales to the chemist wherever possible and generous terms are given. Please write for details and samples if not already stocked. Attractive show material sent on request.

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Introducing a **New Line**
giving **Big Profit**

OWBRIDGE'S

RAPID ACTION

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SOLUBLE AND PALATABLE

PROFIT TO WHOLESALERS

12%-20%

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Write for detailed Price List

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Appoint live agents and increase sales

MALTA WHOLESALE DRUG CO. LTD.

ESTABLISHED 1930

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One half of shares held by majority of local
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OUTRIGHT BUYERS — STOCKISTS — FREE VAN DELIVERIES

Triple Action

for

HEAD DISINFESTATION

Kills **HEAD LICE** Removes **NITS**
Prevents **REINFESTATION**

ESODERM is a pleasant, non-irritating, foamy shampoo approved by Doctors, Nurses and Clinics throughout the country for Head Disinfestation.



Contains: Dicophanum,
B.P.C. Ol. Melaleuca
Alternifolia, B.P.C.
Sulphonated Alcohol.

ESODERM Trade
Mark
Medicated Shampoo

15/- per doz. retail less 33½% discount, Purchase Tax 3/4 per doz
Retail Price: 1/6½ per tube including Purchase Tax.

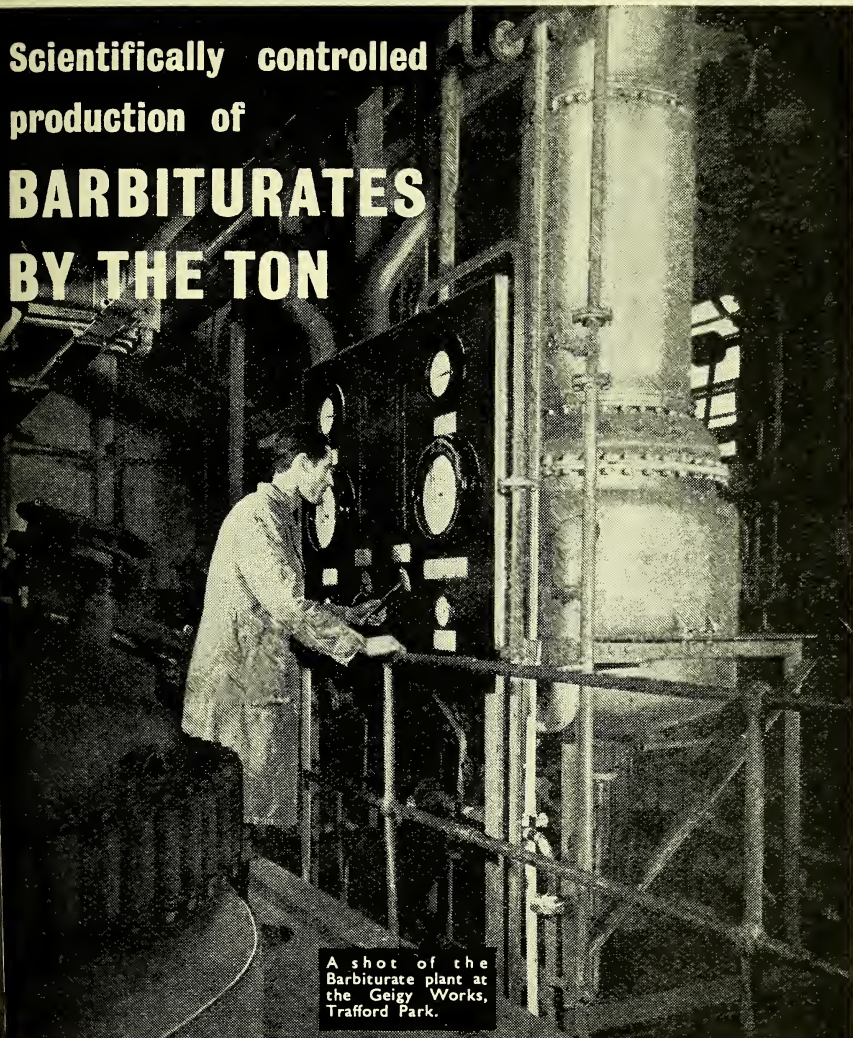
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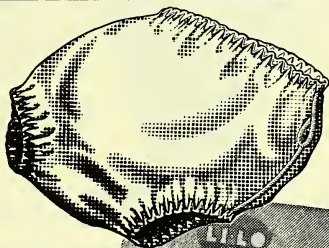
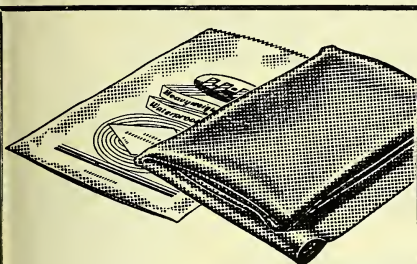
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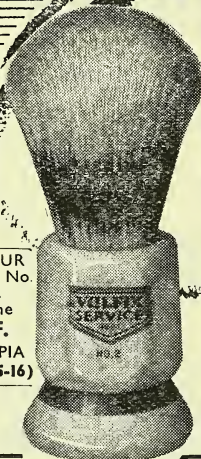
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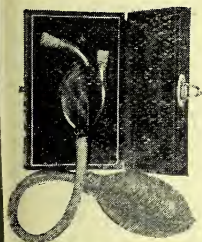
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by L. M. Spalton, B.Pharm., M.P.S.

Today, the pharmacist is faced with an almost bewildering assortment of emulsifying agents, all having varying properties and requiring different methods of treatment.

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The practical uses of emulsifiers is dealt with at considerable length, together with methods of handling each type of emulsifying agent and full notes of incompatibilities and other matters.

The book also contains a classified index of over 300 emulsion agents used in the Drug, Toilet and Cosmetic trades and other industries, with reference to their composition, type and uses, together with an index of manufacturers.

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5/6

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CAMILATONE

feature

Colour-lovely hair★

*to thrill
all
beauty-
conscious
women!*



★ Colour-loveliness is the theme of Camilatone's new national advertising. Starting now, this campaign tells millions of women of the radiant glory to be gained from Toning Shampoo—the exclusive Camilatone Twin Pack containing Shampoo and Tonrinz Colour Rinse. This is your chance to profit from Colour-lovely Hair.

TONING SHAMPOO (Twin Pack)

Each envelope contains a shampoo, plus a separate Tonrinz. In eight lovely shades there is one to suit each customer. Retail Price is 9d. only. Trade price 3/8d. per doz., plus 100% P.T.

TONRINZ—separately—in the same shades retails at 5d. Trade price 2/- per doz., 100% P.T.

Look to your profits! Stock up now!

- ★ RAVEN BLACK
- ★ DARK BROWN
- ★ CHESTNUT
- ★ LIGHT BROWN
(Amber)
- ★ AUBURN
- ★ BLONDE
- ★ GOLDEN RINSE
- ★ BLUE

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‘Sally Ann’ tells millions of filmgoers...

Lovely, vivacious SALLY ANN HOWES is the NIVEA girl in some delightful Technicolor filmlets which are reinforcing the NIVEA message to cinema audiences throughout the country. A NIVEA window and counter display will remind customers . . .

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£5 orders (excl. tax) for Nivea products earn a bonus of 20 Popular 2/6d. Size Nivea Creme—increasing your profit to 44%. Each extra 10/- earns another 2 tins.

Skin needs NIVEA the 9-purpose cream

Filmlets will influence the sale . . . you can clinch it . . .

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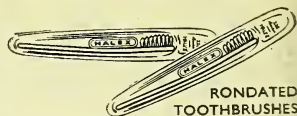
Come and visit **HALEX** at the **B.I.F**

You'll find all the new Halex aids to good grooming on show at Olympia. Make a special point of seeing the 1952 range of Halex Hairbrushes, including the new and handier Halex Combing Brush.

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There is now a fine fast-selling Halex or Bex line for almost every section of your family trade. Call in and see for yourself.

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MAY 5th—16th



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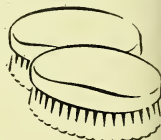
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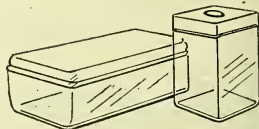
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Sundries

Surgical
Dressings.

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(World Natural Sponge Suppliers Ltd.)

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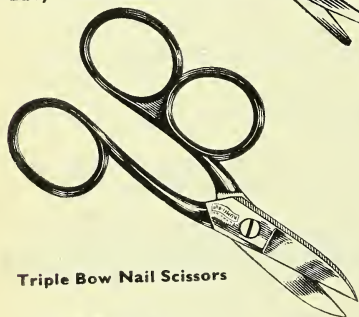
Telegrams: Sponge, Norwest, London



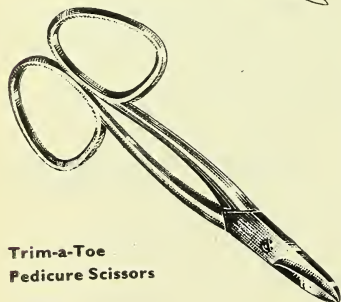
Man's Nail Scissors



Baby's Nail Scissors



Triple Bow Nail Scissors

Trim-a-Toe
Pedicure Scissors

It
pays you
to provide
this
personal
Scissors
Service

Here is a whole family with whole-family appeal: baby's scissors for Christening presents, scissors with triple bows and scissors in smart pouches as present suggestions. Illustrated are a few of the patterns from this range.

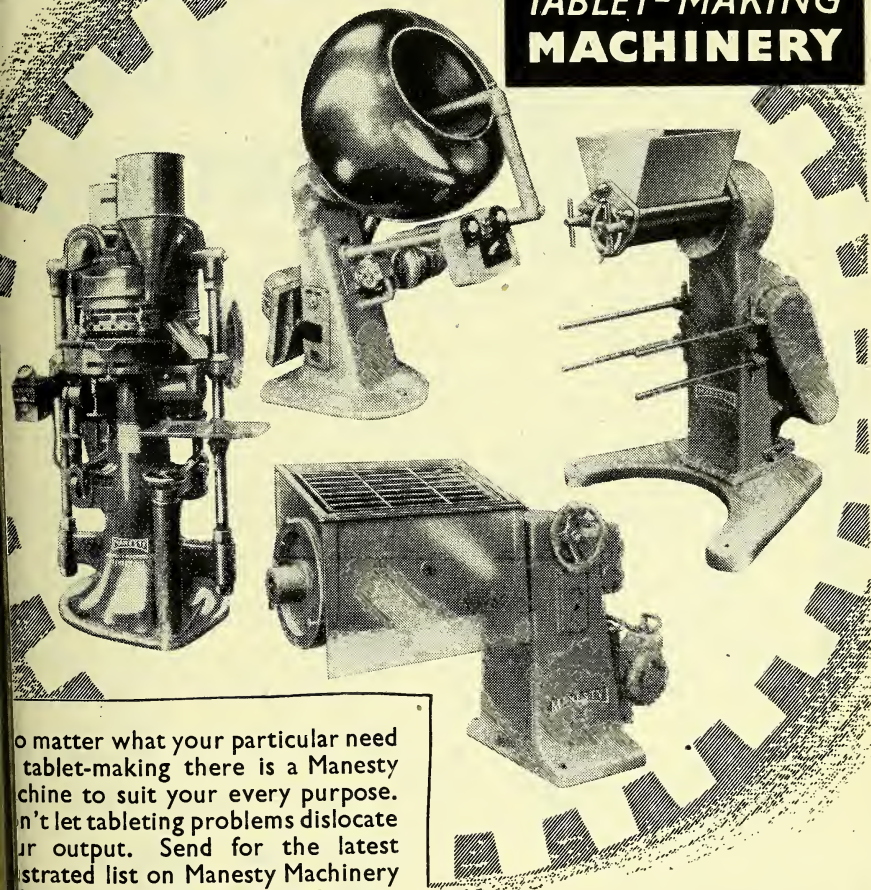
Write today for full details of the attractive family with the lively selling record

CHAMPION'S
KUMFI-KUT
PERSONAL SCISSORS

CHAMPION (SCISSORS) LTD

14-16 HOLBORN · LONDON · E.C.1 · WORKS : SHEFFIELD · ENGLAND

MANESTY TABLET-MAKING MACHINERY



no matter what your particular need in tablet-making there is a Manesty machine to suit your every purpose. Don't let tableting problems dislocate your output. Send for the latest illustrated list on Manesty Machinery and see how Manesty can help you.

Do you want this book? "Tablet Making" an authoritative volume by A. Little & J. Mitchell. 121 pp. 41 illus. 25 formulæ. Cloth bound. 15/- net. Post free.

BIF



MAY 5-18
STAND D35
OLYMPIA

Left:—BB3 Rotary Tablet Machine. Maximum output 1300 x 1/2" diam. tablets per minute. Constant or variable speed.

Below:—"H" Stainless Steel Mixer, Powder Capacity 100 lb. Transparent plastic lid. Safety guard.

Top:—CP2 Coating Pan 3-speed model driven by constant speed electric motor. Equipped with independently operated hot air blower. 30-inch pan.

Right:—Rotorgran Oscillating Granulator. Capacity 150 lb. moist powder per hour; 1300 lb. dry powder per hour.

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It's ZAC for Nurse's own Baby

What does a nurse do when she marries and has a baby of her own with "nappie-chafe"? Well, here is one nurse's answer: "For my own baby I never use anything else but ZAC Baby Cream." In fact, I would not be without it. When my daughter was 6 months' old, she was unfortunate enough to contract gastro-enteritis, even though breast-fed and I am happy to contract inform you that only through the use of ZAC was I able to prevent her buttocks becoming sore."

—A.W. S.R.N.

ZAC Baby Cream contains lanoline, nearest to natural skin oils. Keeps Baby "Nappie-happy" and smelly... and use. 1/9 jar



"Wonderful for Nappie-Chafe"

Says Mother of Three

And not only for Nappie-chafe but for rough skin and chapped hands, too. Read this Mother's letter: "Will you please allow me to thank you for bringing out such very good stuff as ZAC Baby Cream. It is really wonderful for healing nappie-chafe. My other two daughters use it for rough skin and chapped hands. I wouldn't be without a jar for the world. When I take my baby to the Welfare Centre I always recommend it to other mothers."

—Mrs. A.C. Sheffield.



ZAC Baby Cream contains lanoline, nearest to natural skin oils. Keeps Baby "Nappie-happy" and sweet-smelling. Economical in use. From all chemists, 1/9 double quantity.

413

Baby's Rash Vanished

Almost Overnight

Good news is worth sharing. "I feel I must write," says this mother, "to tell you how much I value your ZAC Baby Cream. Baby had a rash when just a few weeks old. Then I everything I could think of. Baby's rash and tried it. Baby's rash vanished almost overnight. I was so pleased I recommended it to all my friends and I'm never without it. Baby is now nearly 9 months' old and I've had no more trouble."



—Mrs. C.W.M. Hornsea, E. Yorks. ZAC Baby Cream contains lanoline, nearest to natural skin oils. Keeps Baby "Nappie-happy" and sweet-smelling. Economical in use. From all chemists, 1/9 jar; double 409

all chemists, 1/9 jar; double 409

Here are specimens of the new ZAC adverts

which are stepping up the sales of ZAC Baby Products every part of the Kingdom

The latest ZAC Baby Cream and Baby Powder advertisements are markedly increasing sales of these popular preparations in every district in the kingdom.

Lovable baby drawings by a famous artist which illustrate user-mothers' own satisfaction are persuading other mothers to buy ZAC. And once they have experienced the high quality preparations, they repeat and repeat!

Over 30 million ZAC advertisements appear every month in the leading Women's Magazines and in the National Press. Steady and continuous sales are CERTAIN.

HOW ARE YOUR STOCKS?

ZAC

BABY PRODUCTS

RIGHT for BABY—RIGHT for MOTHER—RIGHT for YOU

HOUGH, HOSEASON & CO. LTD., CHAPEL STREET, MANCHESTER 19

Now available—

'DARAPRIM'
TRADE MARK

THE NEW ANTIMALARIAL

'Daraprim' brand Pyrimethamine (2:4-Diamino-5-[4-chlorophenyl]-6-ethylpyrimidine), the new antimalarial announced some months ago, has now undergone clinical trials and is ready for issue.

TREATMENT

In many parts of the tropics, a single dose of 50 mgm. (in some cases even less) has been found adequate to clear the parasitæmia and relieve the fever in acute cases of malaria. Some workers, however, prefer to give two doses on consecutive days.

SUPPRESSION

'Daraprim' has given highly encouraging results in areas where malaria is endemic. A dose of 25 mgm. given at weekly intervals to the inhabitants of certain isolated villages, has reduced the parasite index from approximately 22 per cent to zero in 6 months during the season of transmission.

Although conclusive evidence of its action in non-immunes is not yet available, there are solid grounds for believing that it will prove an excellent suppressant in them.

'Daraprim' is issued as compressed products of 25 mgm., in packs of 6, 30 and 1000. Further information on request to 183-193, Euston Road, London, N.W.1.

In countries within the French Union, available as 'Malocide' brand Pyrimethamine

BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) **LONDON**

Associated Houses:

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**IMPROVEMENT
OF BLOOD SUPPLY**
is the basis of treatment in
**MUSCULAR RHEUMATISM
FIBROSITIS, LUMBAGO**

TRAFURIL CREAM

produces
**RAPID AND PROLONGED
INCREASE IN LOCAL BLOOD SUPPLY**

The soothing warmth
reduces pain and promotes healing

Non-irritant · Non-greasy · Odourless
Economical

Tube of 20 g. (3/-) Jar of 1 lb. (39/-)
Retail Discount 33½% : Exempt from Purchase Tax

C I B A

*'Trafuril' is a registered trade mark denoting the
tetrahydrofurfuryl ester of nicotinic acid : Reg. user*

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Telephone : Horsham 1234

Telegrams : Cibalabs, Horsham

The



CHEMIST AND DRUGGIST

for RETAILER—WHOLESALE—MANUFACTURER

MAY 3, 1952

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

Single copies 1/- each. Annual Subscription, which includes The Chemist and Druggist Diary and Year Book, £2

Volume CLVII

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NEWS OF THE WEEK

Freed from Export Licences.—Beeswax, annauba and ouricuri waxes and dried trus peels (other than candied peels) were exempted from export licensing control on pril 30.

Enamelled Hollow-ware Price Control nds.—Under an order made by the President of the Board of Trade (S.I., 1952, No. 25) the orders imposing price control on l enamelled hollow-ware are revoked with fect from April 25.

Chemical Society Officers. — The following officers of the Chemical Society ere elected recently:—*President*, Professor C. K. Ingold; and *Vice-presidents*, Professor E. L. Hirst, Sir John Simonsen and ir Eric Rideal (retiring president).

Purchase Tax on Scissors.—The Commissioners of Customs and Excise have, according to a statement issued on April 3, decided to regard all scissors and lanks not exceeding eight inches in ngth as liable to purchase tax. Among ceptions mentioned in the statement are edical and surgical scissors that were pre-

viously accepted as exemptions under Group 13(b) of the Tax Schedule.

Statutory Committee Meeting.—The Statutory Committee of the Pharmaceutical Society is meeting at 17 Bloomsbury Square, London, W.C.1, on May 7, at 2.30 p.m. to resume an inquiry adjourned from April 2, and to consider information from which it appears that a member of the Society was convicted of offences under the Dangerous Drugs Regulations, 1937.

Agricultural Poisons Regulations.—The Ministry of Agriculture and Fisheries is asking for voluntary adoption of precautions in using substances covered by the Agriculture (Poisonous Substances) Bill (see *C. & D.*, April 5, p. 477), as it will not be possible to bring regulations into force during the early part of the 1952 spraying season.

Import Licensing Regulations. — A booklet (Notice to Importers No. 492), published by the Import Licensing Branch of the Board of Trade, Romney House, Tufton Street, London, S.W.1, collects to-

gether in convenient form the various regulations in force on May 1. Appendix I, for example, is a list of goods which can be imported from any country without licence: Appendix II lists goods which can be freely imported from the "liberalisation" list of countries, and Appendix IV goods which can be freely imported from the sterling area.

American Chemical Profession.—At a meeting in London recently of the London section of the Royal Institute of Chemistry, Dr. R. L. Kenyon (liaison officer of the American Chemical Society in London) described "The Organisation of the Chemical Profession in the U.S.A." The industry, he said, was one of the most rapidly expanding of American industries. The American Chemical Society was the centre of the profession and had more than 67,000 members. He outlined the training of American chemists and chemical engineers, and said that the scientific and technical man-power shortage was troublesome, and threatening to grow worse, as the number of B.S. graduates in the physical sciences was lower in 1951 and falling. Provision for foreign membership of the Society existed.

Fine Chemicals Group.—Dr. Norman Evers addressed the Fine Chemicals Group of the Society of Chemical Industry recently on the "Physico-chemical Aspects of Drug Administration." He said that failure to find the best method of administering a drug might lead to its being discarded on insufficient grounds. Often a drug had been in use for some time before the best method was found. Hyaluronidase had proved valuable in increasing the rate of absorption and degree of diffusion of injections, but it was often more important to prolong the action of drugs. Dr. F. Bergel (chairman) referred to the hexamethonium halides, in which activity was due to the cation, yet which differed in activity far more than was accounted for by their molecular weights. Dr. Jones commented upon the differing effectiveness as antacids of the allotropic modifications of hydrated alumina and their changes on "ageing." The reasons for the differing pH values of preparations of globin insulin and protamine insulin for injection were discussed by Drs. Foster, Petrow and Ryman. They did not reach agreement on the isoelectric point of globin. A vote of thanks, proposed by Mr. J. A. Eggleston was carried with acclamation.

LOCAL NEWS

Dewsbury Rota Praised. — The Dewsbury Executive Council has reported that the rota service given by Dewsbury chemists has been so efficient that not a single complaint has been received. There are over 53,000 names on the doctors' lists.

Plymouth Liaison with Doctors. — A committee of liaison between the Plymouth Pharmaceutical and Medical Committees met on March 13 to discuss matters concerned with the National Health Service. The representatives from the Pharmaceutical Committee were: Messrs. C. Condy U'Ren (chairman), A. G. M. Madge (Co-operative representative), C. Harker (employee representative), and W. F. E. Eustace (secretary). The Committee discussed the possibility of forgery by patients when more than two types of handwriting appear on EC10 forms; the importance of stating the age of young children; S4 directions; preventing accidents by overdoses; family requirements on one form; forms with more than one prescription; careful crossing out of Mr., Mrs. or Miss on EC10s; excessive quantities; the prescribing of linctus Physeptone for children; the initialling of alterations; late service by pharmacists; and patients' waiting in pharmacies. The representatives of the Pharmaceutical Committee felt that a great step forward in co-operation between the two professions had taken place.

Mental Health of Children.—Describing the child as a developing organism vitally affected by surrounding influences, Dr. P. Holman, in an address on "Child Problems" to the National Association of Women Pharmacists in London on March 13, said that the mechanism of the mind was even more complicated than that of the body, and some believed, more important. There might, in time to come, be anatomy of the mind, with specialists for each section. The present child psychologist was encouraged to have as much general medical knowledge as possible. It frequently happened that, when medical colleagues could find no cause for asthma, skin conditions, vague aches and pains, fatigue or enuresis, the child was sent to the psychologist. An only child of tense, over-anxious parents setting excessively high standards for themselves and the child, might develop asthma or skin trouble. Asthma was an example of a condition often caused by the child taking parents' conflict into himself. Bed-wetters had characteristic dreams often

with fear of the dark and someone coming to strangle them. Those troubles could usually be cleared up when they were understood and talked about to get over the worst of the internal conflict. Drugs that helped were belladonna, ephedrine and amphetamine sulphate. The last was useful when the child was a heavy sleeper; the dose might be increased from 5 to 15 mgm. at night.

SPORT

GOLF.—**EDINBURGH CHEMISTS' GOLF CLUB**, at Liberton Golf Course, recently, for Raimes tankard, C. F. Ireland, 76-8-68. Club prizes: best scratch score, Hugh Semple, 75; No. 2 section, A. Fulton, 92-14-78; No. 3 section, A. N. Fleming, 96-24-72.

EDINBURGH CHEMISTS' GOLF CLUB, competition at Baberton. W. Hill & Co. prize: J. E. Budge (7), 72. Best scratch score: J. E. Budge and N. H. Stephen, 79. Club prizes, No. 1 section, W. S. Thomson (7), 75; No. 2 section, W. A. M. Hurston (18), 80; M. Meehan (19), 76.

IRISH CHEMISTS' GOLFING SOCIETY, at Carlow Golf Club on April 20, first outing of the 1952 season. A party from Dublin was led by their new captain (Mr. Sylvester O'Farrell), and pharmacists from Tipperary, Offaly and surrounding counties came in force. There was keen competition for the trophies presented by Dalmas (Ireland), Ltd., Coty, Ltd., and Allen & Hanburys, Ltd. In the eighteen holes strokes competition the winners were: 1, Mr. S. O'Neill (11), 70; 2, Dr. F. McKenna (13), 73. Eighteen holes bogey competition: 1, Mr. J. T. Foley (19), all square; 2, Mr. T. J. Lynch (6), all square; 3, Mr. C. J. Staunton (8), all square. At the presentation of the prizes held after dinner at the clubhouse the captain congratulated the members for a fine attendance at the inaugural meeting. The prizes were presented on behalf of the donors by Mr. A. W. Hughes (a director of Dalmas (Ireland), Ltd.). A vote of thanks to the donors was passed on the motion of Mr. S. O'Neill, seconded by Dr. F. McKenna. Mr. Hughes replied.

SCOTTISH NEWS

Cortisone Experiments.—As part of an endeavour to produce Cortisone in Glasgow, experiments are being conducted at the Royal Technical College, Glasgow, under the supervision of Professor F. S. Spring, head of the chemistry department.

Extravagant Prescribing Penalised.—At a meeting on April 24, Edinburgh Executive Council decided to have £15 10s. deducted from the remuneration of an Edinburgh doctor for extravagant prescribing. Made out from January to March 1951 and dispensed by a chemist, the prescriptions showed "little attention to economy in prescribing." Month by month the proportion of proprietaries in the prescriptions was 37.9, 40.94, and 44.07 per cent., against 26.5 per cent. (last available figure) for Scotland. The Council's statement of accounts for the year ended March 31, shows a saving of £163,348 over the previous year.

Pricing in 1952.—Because the method of pricing prescriptions detailed in a memorandum issued by the Department of Health for Scotland on January 24 (see *C. & D.*, February 2, p. 140) has resulted in more than 20 per cent. (instead of 10 per cent., as intended) of all group B forms for January, 1952, having to be priced in full, the method has been modified as follows: If there are between one and ten packets in the chemist's group B bundle, one will be priced in full; if there are eleven to twenty, two will be priced in full, and so on. Any chemist with less than 100 forms altogether, will continue to have them all priced in full. The modified method has been agreed to by the chemists' representatives.



VETERANS' DINNER.—Allen & Hanburys, Ltd., entertained to dinner in London recently eighty-eight employees of the company with twenty-five or more years' service each.

IRISH NEWS

Examination Results. — Seventy-five candidates sat for the April Licence examination of the Pharmaceutical Society of Ireland, including the first batch of fourteen Registered Druggist candidates for the new Dispensing Chemist and Druggist qualification. The successful candidates were: Albert N. K. Cole (with Honours), Dermot V. Condon, Joan Mary Aherne, Miriam C. Arnold, Hugh P. Carroll, William Counihan, Michael F. Howard, Robert J. Shore, Elizabeth Curtin, Mary P. Downey, John P. Duffy, Michael Fleming, Brigid Harnett, John Harnett, Mary Hannan, Liam Edna Horan, Daniel D. Jackson, Mary P. Leader, Joan McNulty and Patrick J. O'Brien. There were seven "refers" in pharmacy and four in chemistry.

New Members of the I.D.A. — The following chemists were recently elected members of the Irish Drug Association: Mr. T. J. Bourke, Borrisokane, co. Tipperary; Miss K. Carty, Castlepollard, co. Westmeath; Mr. B. Cullen, 72 Navan Road, Dublin; K. G. Judge, Ltd., 140 Francis Street, Dublin; Kennedy's Pharmacy, 2 Main Street, Wexford; Messrs. V. O'Connell, Derrynane Pharmacy, 38a South William Street, Dublin; J. G. O'Donoghue, 64 Boherbee, Tralee, co. Kerry; F. O'Reilly, 5 Main Street, Naas, co. Kildare; P. P. O'Reilly, Ballybay, co. Monaghan; E. Power, The Sandyford Pharmacy, Sandyford, Dublin; M. J. Terry, Ltd., Dundrum, Dublin; Mrs. A. B. Sexton, Loch Gowna, co. Cavan; and Mr. J. J. Staunton, Main Street, Castlebar, co. Mayo.

West of Ireland Association. — At a meeting of the West of Ireland Chemists' Association held in Claremorris on April 20, Mr. V. Tully, Castlerea, in the chair, there were present Messrs. J. P. Kissane (president, Pharmaceutical Society of Ireland), G. C. O'Neill (president, Irish Drug Association), T. R. Bourke (vice-president, I.D.A.) and B. R. Smith (secretary, I.D.A.), and pharmacists from the counties of Mayo, Sligo, Roscommon, Leitrim and Galway. A discussion on recent increases in salaries for chemists' assistants and other staff took place. It was suggested that the I.D.A. should go into the question of revising existing professional charges and profit margins to meet the increased salary charges. Other matters discussed included the practice of some manufacturers of increasing retail prices without giving any commensurate increase

in the chemist's profit margin, the increase in bottle prices, the modified examination for Registered Druggists, the leakages of chemists' approved lines, and the restriction on the distribution and sale of certain veterinary products by chemists. The meeting expressed its strong support of a recent motion on the subject moved by Mr. M. Power at the April Council meeting of the Pharmaceutical Society of Ireland (*C. & D.*, April 19, p. 537). Chemists present were urged to furnish details of their own experiences in that connection. The meeting was divided on the question of an official journal, diverse views being expressed. At the close of the meeting the delegates adjourned to dinner. A musical evening followed.

Health Services Board.—A test prescription for mist. ferri et ammon. cit., in which it was alleged that there was a deficiency of 11.6 per cent. in the iron and ammonium content, was considered by the Northern Ireland General Health Services Board at its meeting in Belfast on March 26. The Services Committee found the deficiency proved. The chemist had used a stock mixture taken over when he acquired the business a few weeks previously, and that stock mixture had been deficient. It recommended that, having regard to the circumstances, the chemist's assurance that he did not normally use stock mixtures should be accepted. On the advice of the Medical Advisory Committee, the Board agreed to request the Ministry of Health in the Drug Tariff specifications to enable Nusan dressings, Urosulphonet, Bi-Coude catheters and rubber fingerstalls to be prescribed on form HS21, together with a revised list of appliances. The proposal by the Hospitals Authority to discontinue the Hospitals Prescriptions scheme was discussed at a meeting of the Liaison Committee at which the Authority's secretary (Mr. E. H. Jones) stated that a review of the prescriptions had revealed an alarming number of abuses. Mr. G. D. Stewart (secretary of the Board) reminded the Committee of the difficulties caused to general practitioners by medical staffs in hospitals ordering treatment of patients with expensive proprietary preparations and other preparations which the general practitioner was not entitled to order on the Board's forms, and asked that that problem should be borne in mind in the event of the scheme being ended.

TOPICAL REFLECTIONS

Heard in North London

Your valuable article containing the observations of several North London Pharmacists on the health centre nearing completion on the Woodberry Down housing estate (pp. 579-83) has, I hope, been read attentively by panel contractors throughout the country. The street plan showing the positions of the local pharmacies is an excellent idea. It reminds those who know the layout of London that Stoke Newington is a busy borough with three main roads running through it. In addition to the long thoroughfare comprising Stamford Hill, Stoke Newington High Street and, I think, part of Stoke Newington Road, it has within its boundaries parts of Green Lanes and of Seven Sisters Road. These arteries are flanked by numerous streets and roads. A glance at your plan of the area shows that, if intended primarily to benefit the borough, the health centre should have been located more centrally instead of on the extreme western border of the N.16 postal district. All who read the remarks of the people interviewed on your behalf must have been impressed by unanimity on two matters. The first is that cost of building and running the centre is not likely to be justified by results; the second is that all the pharmaceutical service needed is already provided in the local pharmacies. With so alert an outlook, the future of the service should be satisfactory.

A Scottish Celebration

The centenary celebration dinner of the Scottish Department of the Pharmaceutical Society was evidently a successful function. The list of speakers should satisfy the most fastidious critic. I am wondering whether any orator went further back in Scottish pharmaceutical history than the year 1852. Though that year is the accepted datum line for the inauguration of the Department (the North British Branch, as it was first called), a good deal of spadework was done previously. An article in the *C. & D.*, 1901.II.992-95 shows that in 1851 meetings of chemists and druggists were held in Aberdeen and Edinburgh, the primary purpose being to add to the Pharmacy Bill then before Parliament provision for a board of examiners for Scotland. At a further meeting, Jacob Bell, author of the Bill, was present. In December of that year the Council of the

Society adopted certain proposals sent from Scotland, and advanced money for current expenses and for "museum requisites." A tribute was justly paid at the centenary dinner to three of the Society's resident secretaries in Scotland, Mr. Rutherford Hill, Dr. Joseph Tait and the present secretary, Dr. David McCall. To these names I may add those of the first two secretaries, Mr. John Mackay (to 1881), and Mr. Peter MacEwan (1881-86), later Editor of *THE CHEMIST AND DRUGGIST*. Mr. H. T. Thomas's citation of a half-crown fine for non-attendance at meetings in the past may have been received with mixed feelings by a Scottish audience.

Reprints from the U.S.A.

During the past few days two reprints from the American Institute of the History of Pharmacy have arrived. The publications in which they first appeared can usually be seen in this country. One reprint is headed "The Antibiotics and Pharmacy"; the author is Dr. George Ur-dang, Director of the Institute and Professor of the History of Pharmacy in Wisconsin University. The reference is "Journal of the History of Medicine and Allied Sciences," 1951.3.388-405. The article summarises the production, chiefly that of the United States, of antibiotics up to last year, with special reference to penicillin. It forms a striking record of American enterprise. Acknowledgment of pioneer work in England is made: one fact not generally known, I believe, is that, in the beginning of penicillin manufacture, over 700 reports on its chemistry were exchanged between laboratories in the two countries in less than three years. The other reprint is entitled "Science in American Pharmaceutical Education of the 19th Century." The author is Mr. Glenn Sonnedecker, secretary of the Institute; the publication, taken from the "American Journal of Pharmaceutical Education," XV.2.1951.185-217, is the first of a series from the History of Pharmacy Department of Wisconsin University School of Pharmacy. The author mentions that three of the four "real textbooks" listed by Joseph P. Remington in 1857 were of British origin — Pereira's "Materia Medica," Mohr and Redwood's "Practical Pharmacy," and Fownes's once well known "Manual of Elementary Chemistry."

Xrayser

COMPANY NEWS

KINGSLEY & KEITH, LTD.—Mr. R. A. Pargeter, general manager of the company, has been appointed a director.

NOMA COSMETICS, LTD.—Mr. James Harrison, sales manager of the company, was appointed to the board on April 22.

GLAXO LABORATORIES, LTD.—The ordinary interim dividend of $7\frac{1}{2}$ per cent. is being increased to 10 per cent.

DISTILLERS CO., LTD.—A £10 million issue of 5 per cent. unsecured loan stock carrying an option to convert into ordinary capital is announced.

POTTER & CLARKE, LTD.—Profit for 1951 was £5,616 (against a 1950 loss of £9,283) after tax, £2,153 (£5,511), and after crediting E.P.T. repayable, nil (£7,663). No ordinary dividend (same) is proposed.

A. F. PEARS & CO., LTD.—Operating profit for 1951 was £8,727 (against £60,929 in the previous year). After tax, £35,488 (£26,218), etc., the net profit was £29,119 (£23,592). No ordinary dividend (same) is proposed.

J. & E. ATKINSON, LTD.—Net profit for 1951 was £31,281 (against £53,898 for 1950) after reserve for replacement of fixed assets, £3,942 (£3,949), and tax £52,049 (£16,328). A dividend of 10 per cent. (same) on ordinary capital is recommended.

DUBARRY PERFUMERY CO., LTD.—No final dividend is to be recommended on ordinary shares for 1951—an interim of $7\frac{1}{2}$ per cent., less tax, has already been paid. For the previous year a total of $17\frac{1}{2}$ per cent. was paid.

ALLEN & HANBURYS, LTD.—Provisional allotment letters have been sent to ordinary shareholders for the new share issue (see *C. & D.*, March 26, p. 564). Rights will be available through the Stock Exchange on May 5, and investors purchasing the rights will be called upon to pay a further 40s. per share on May 28.

IMPERIAL CHEMICAL INDUSTRIES, LTD.—Group profit for 1951, before taxation, but after charging £8,892,892, against £8,694,823, for depreciation, was £40,057,501 (£31,018,457 in 1950). With tax, £16,557,129 (£12,455,692); net income at £20,382,548 was £3,538,636 more than in 1950. A final dividend of 10 per cent. on ordinary stock is recommended, making a total of 13 per cent. for the year (12 per cent.).

PEST CONTROL, LTD.—Consolidated trading profit to September 30, 1951, was £282,100 (against £337,378 in the previous year). In the statement issued with the accounts, the chairman (Lord Boyd-Orr) explains that for the tax year 1951-52 and onwards the company will cease to be assessed for income-tax on actual profits and will change over to the "previous year basis." This means that provision ought to be made for eighteen months' future taxation. The company has made a start towards this end by setting aside in the years to September 30, 1951, approximately £14,000 towards the total amount of £53,500 required; but this means that if the accounts at September 30, 1952, are to include full provision for income-tax then the balance of £39,500 not yet provided will also require to be set aside out of the profits of that year. Had any ordinary dividend been paid further tax would have been incurred. As already reported (see *C. & D.*, April 19, p. 532), no ordinary dividend is recommended.

New Companies

KENNEDYS PHARMACY, LTD. (P.C.).—Registered in Dublin. Capital £1,000. To carry on the business of chemists, druggists, compounders of medicines, etc. Robert Kennedy, St. Ibar's Villas, Wexford, (Mrs.) C. Kennedy, and Michael Kennedy, directors.

CHARLES H. SCARBOROUGH, LTD. (P.C.).—Capital £100. To carry on the business of pharmaceutical and general chemists, druggists, etc. Charles H. Scarborough, M.P.S., Mary A. B. Scarborough and Francis T. Fortey, directors. R.O.: 11 South Lodge Avenue, Mitcham, Surrey.

KELVINSIDE CHEMISTS, LTD. (P.C.).—Registered in Edinburgh. Capital £6,000. To carry on the business of dispensing and photographic chemists, etc. Carl H. Brownning, M.D., D.P.H., F.R.S., Kathleen M. Calver, B.Sc., Ph.D., Ph.C., and Rosalind Browning, directors. R.O.: 97 West Regent Street, Glasgow.

ULTER (BRADFORD), LTD. (P.C.).—Capital £1,000. To carry on the business of wholesale and retail dealers in chemicals for pharmaceutical, photographic, scientific and other purposes, chemists' sundries, etc. Reginald Slater and Harold Fieldhouse, subscribers. R.O.: 1 Delph Crescent, Clayton, Bradford.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

THE Secretary for Scotland was asked by MR. W. W. HAMILTON on April 22 the average cost of a National Health Service prescription from 1948 to 1952.

MR. J. STUART replied: The approximate average cost per prescription in Scotland was 3s. 6d. in the second half of 1948; in 1949 it was 4s. 1d.; in 1950, 4s. 4½d.; and in 1951, 4s. 7d. He told MR. H. N. LINSTEAD in a written answer on the same day that the number of prescription forms dispensed in Scotland from April 1951 to March 1952 was 14,800,000, representing approximately 20,700,000 prescriptions.

THE MINISTER OF HEALTH (MR. H. CROOKSHANK) told MR. LINSTEAD on April 23 that the number of prescriptions dispensed in England and Wales under the Health Service in the year ended December 31, 1951 (the latest convenient period of twelve months), was approximately 228.6 millions.

Guillotine on N.H.S. Bill

THE MINISTER OF HEALTH (MR. H. CROOKSHANK) on April 23, moved the adoption of a time table for the remainder of the debate in Committee on the National Health Service Bill. It provided for the completion of the debate in one day, and after being amended was passed by 270 votes to 245.

Among the amendments to the Bill which were discussed was the following (referring to charges made for appliances) "except in cases where it can be shown that the replacement or repair is due to a fault in the appliance." At the end of the allotted time for discussion the motion was lost (305 votes to 285). A motion to substitute the word "lessen" for "vary" in clause 3 (dealing with power to vary or abolish certain charges) was agreed to. In a later debate on an amendment under the same section, MR. H. N. LINSTEAD urged that the charges be not put on an annual basis. "For the sake of the patient put them on some basis of permanency. At any rate do not have a date known when it is possible that a scale of charges may be abolished."

Elastic Stockings in N.H.S.

MISS P. HORNSBY-SMITH (Parliamentary Secretary to the Ministry of Health) told MR. F. H. HAYMAN in a written answer on April 24 that about 35,000 pairs of all

types of elastic hosiery were supplied annually through the hospital service in England and Wales. MR. H. CROOKSHANK told him that one-way-stretch knee and thigh stockings provided through the hospital service averaged 56s. 6d. and 81s. a pair respectively, and two-way stretch 39s. and 45s. 6d. a pair. The highest and lowest prices for any type of knee stocking were 75s. and 30s. 6d. a pair, and of thigh stockings 106s. 6d. and 38s. a pair.

Mercury in Teething Powders

MR. SOMERVILLE HASTINGS asked the Minister of Health on April 24 "whether his attention has been called to an article in the "British Medical Journal" [*C. & D.*, March 1, p. 292] in which it is stated that serious kidney disease may be caused by teething powders, and whether he will initiate inquiries with a view to banning the sale of these dangerous medicines." MISS HORNSBY-SMITH: The Minister is advised that the evidence in this report is inconclusive; other inquiries are in progress.

Proprietary Nasal Douche

MR. E. L. MALLALIEU asked the Minister of Health on April 24 for "the result of his investigations into the prescribing in North Middlesex under the National Health Service of a nasal douche about twenty times more expensive but of no greater therapeutic value than that given in the National Formulary."

MISS P. HORNSBY-SMITH replied that the investigations were not completed, but that she was informed that the preparation was not now being manufactured.

BUSINESS CHANGES

MISS K. CARTY, M.P.S.I., has opened a pharmacy at Castlepollard, co. Westmeath, Eire.

DR. A. L. MORRISON, F.R.I.C., has been appointed director of research, research laboratories, Roche Products, Ltd., Welwyn Garden City, in succession to Dr. F. Bergel.

UNITED DRUG & CHEMICAL CO., LTD., Ballina, co. Mayo, have acquired the site of the old Theatre Royal, Henry Street, Limerick, for new premises.

MR. HUGH MUIR, M.P.S., is carrying on the business of Wright & Muir, 19 Lynedoch Street, Greenock, Renfrews, under his own name, Mrs. A. C. Wright having retired from the partnership.

MARRIAGE

LEES—WATT. — At Gilcomston, St. Colm's, Fraserburgh, Aberdeens, on March 29, Robert Edward Lees, Ph.C., 7 Hillhead Terrace, Old Aberdeen, to Georgina Aitken Watt, 10 Margaret Street, Aberdeen.

DEATHS

GEORGE.—Suddenly, on April 16, Mr. John D. George (a director of W. & J. George & Becker, Ltd., Alperton, Wembley, Middlesex), aged twenty-five. He was the son of the late Mr. W. J. George, a founder of the company.

JENKIN.—At the Cleveland Hotel, Bath, Somerset, on April 27, Mr. Charles Jenkin, M.P.S., aged seventy-seven. A former alderman of Bath, Mr. Jenkin founded the business of Charles Jenkin & Son at Lower Bristol Road, Bath, a pharmacy now carried on by his son, Mr. Charles Lawrence Jenkin, M.P.S. The business now has a number of branches. Mr. C. E. Jenkin was a former chairman of Bath Insurance Committee and a past-president of the Bath Branch of the Pharmaceutical Society. He is survived by his widow, one son and two daughters, one of them (Mrs. Q. M. Shutter) a pharmacist.

MILBANK.—At 14 North Street, Bishop's Stortford, Herts, on April 17, Mr. Sidney Thomas Milbank, Ph.C., aged eighty-six. Mr. Milbank qualified as a chemist and druggist and passed the Pharmaceutical Chemist examination in 1887. He was actively engaged in business until within a year of his death. He was the first chairman of the Hertfordshire Pharmaceutical Committee under National Health Insurance, and held that post for twenty-five years. *Mr. D. W. E. Barker, M.P.S., writes:* With the death of Mr. Milbank there passes another of the old school of Pharmaceutical Chemists. As the first chairman of the Hertfordshire Pharmaceutical Committee, he was responsible, with the help of his expert knowledge of National Health Insurance matters, for advising many of the rank and file of pharmacists to their advantage. A true chemist, one who knew his job and did it, having been brought up to manufacture his own galenicals, for example, he had little or no room for the "ready packed" article of which we see so much today. Many in the country have lost a friend in him, and pharmacy a clever chemist. It has been my privilege to know him for over forty years.

MOULDS.—On April 15, Mr. F. Wilson Moulds, M.P.S., F.C.S., 111 Foxhall Road Nottingham, aged sixty-four. Apprenticed to Mr. Ross Sergeant, Nottingham, Mr. Moulds qualified in 1921 and was for many years a director of Newball & Mason, Ltd., manufacturing chemists. He was a prominent ambulance worker.

PAIN.—On April 12, Mr. Percy Pain Heath Road, Dersingham, King's Lynn Norfolk, aged eighty-five. Mr. Pain qualified as a chemist and druggist in 1887 and passed the Pharmaceutical Chemist examination in 1888.

PENTY. — On March 18, Mr. George Penty, 417 Liverpool Road, Birkdale Southport, Lancs, aged eighty-five.

PHIZACKLEA. — On March 17, Mr. Richard Norman Phizacklea, M.P.S., 14 Douglas Road, Workington, Cumberland aged forty-one.

REEKIE.—On April 5, Mr. David Reekie, M.P.S., 133 Woodlands, North Harrow, Middlesex. Born in Scotland, Mr. Reekie, who qualified in 1920, had been employed in Harrow for the past eleven years.

ROBINSON.—On March 11, Mr. Arthur Leslie Robinson, M.P.S., 50 High Street, Amesbury, Wilts. Mr. Robinson qualified in 1922.

SMITH. — On March 3, Mr. Thomas Smith, M.P.S., 5 Station Avenue, Bridlington, Yorks. Mr. Smith qualified in 1894.

SURRIDGE.—Recently, Mr. Edgar William Surridge, M.P.S., 4 Parkfield Road, Taunton, Somerset. Mr. Surridge qualified in 1920.

TINDALE.—On April 10, Mr. Charles Tindale, M.P.S., 3 St. Ann's Staith, Whitby, Yorks. Mr. Tindale qualified in 1912.

TIERNAN. — On April 8, Mr. William Sumner Tiernan, Beaufort, Colville Road, Boscombe, Hants, aged fifty-nine. Mr. Tiernan qualified as a chemist and druggist in 1916.

WARWICK. — On April 10, Mr. A. C. Warwick (a joint managing director of Sterns, Ltd., Royal London House, Finsbury Square, London, E.C.2), aged sixty-one. Mr. Warwick had been with the company for over thirty years.

WAUGH.—On March 11, Mr. Herbert Leedham Waugh, M.P.S., 23 Nunroyd Road, Harrogate Road, Leeds, 7, aged seventy-four.

PERSONALITIES

MRS. MURIEL HEAP TOMPKINS, M.P.S., Rock Ferry, Ches, has been elected president of the Birkenhead Soroptimist Club.

MR. JOHN CHESHIRE, M.P.S., has been returned unopposed as representative of Harlaxton on the West Kesteven, Lincs, rural district council.

MR. RUPERT S. LAW, M.A., has joined Whiffen & Sons, Ltd., as technical sales manager and will be responsible for the development of technical chemicals of the Fison group of companies. Mr. Law's department will handle the industrial fine chemicals manufactured by Genatosan, Ltd., and Whiffen & Sons, Ltd. He was formerly technical sales manager of Howards & Sons, Ltd., Ilford.



DR. C. H. HAMPSHIRE, Ph.C., London, has been re-elected chairman of the Expert Committee of the International Pharmacopœia of the World Health Organisation.

MR. E. E. LOCKER, M.P.S., has been appointed a member of the Reading Executive Council. He was nominated by the local Pharmaceutical Committee in place of Mr. W. L. Pullen, M.P.S., who has retired.

LORD WALDEGRAVE, who has been appointed a director of Milton Antiseptic, Ltd., is a member of the Health Committee for Somerset County Council, and a director of the Bristol water works. He has expert knowledge of dairy farming.

MR. BRENDAN R. SMITH (organising secretary, Irish Drug Association) is commencing a tour of the Western seaboard counties of Ireland in May and will continue to the end of June. He hopes to visit every chemist in the counties of Donegal, Sligo, Mayo, Galway, Clare and Kerry.

MR. GILBERT GREENALL, M.P.S., Harrogate, who was one of the artists on the local [British Pharmaceutical] Conference Committee in 1951 (see *C. & D.*, 1951, I.419), submitted two oil paintings and one line drawing to an exhibition organised by the *Salon des Médecins* held in Paris from April 20 to May 4.

MRS. EDITH BARBARA FRYER, Ph.C., Nottingham, who figures in a "Nottingham Guardian" series "A Woman at Work," is a pharmacist at the Nottingham Hospital for Women and treasurer of the East Midland branch of the Guild of Public Pharmacists. She qualified in 1944 after study at Bradford Technical College and before taking up her present appointment was for a year at the Nottingham City Hospital.

THE first three registered druggists in Eire to receive the new qualification of Dispensing Chemist and Druggist (see p. 594) created under the recent Irish Pharmacy Act are Dermot V. Condon, Clonmel, Michael F. Howard, Kilrush, co. Clare, and Robert J. Shore, Ballsbridge, Dublin. Mr. Condon served his apprenticeship with the late Timothy Horan, Ph.C., Clonmel, Mr. Howard with his father, Mr. M. J. Howard, Kilrush, and Mr. Shore with Mr. P. J. Griffin, Carlow.

COMING EVENTS

Monday, May 5

BRITISH INDUSTRIES FAIR, Olympia and Earls Court, London; and Castle Bromwich, Birmingham. Open until May 16.

Tuesday, May 6

NORTH LONDON PHARMACEUTICAL ASSOCIATION and BRANCH, Beale's Restaurant, Holloway Road, London, N.7, at 7.45 p.m. Annual meeting and "Any Questions?"

SPRING SHOW AND INDUSTRIES FAIR, Ballsbridge, Dublin. Open until May 10.

Wednesday, May 7

LONDON CHEMISTS' GOLFING SOCIETY, Finchley Golf Club (telephone Finchley 2436). Fixture.

Thursday, May 8

EPSOM AND SUTTON BRANCH, PHARMACEUTICAL SOCIETY, Wilson's Café, Grove Road, Sutton, Surrey, at 8 p.m. Film, "Modern Drugs in the Making," and Mr. A. R. G. Chamings on "Cortisone and ACTH."

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY, Fuller's Café, Parliament Street, Harrogate, at 7.30 p.m. Annual meeting and colour films by Mr. H. H. Featherstone.

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Metro-pole Hotel, Leeds, at 7.45 p.m. Annual meeting.

MANCHESTER AND SALFORD BRANCH, NATIONAL PHARMACEUTICAL UNION, Council Chamber, Houldsworth Hall, Manchester, at 7.45 p.m. Annual meeting.

PORTSMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Solent Hotel, South Parade, Southsea, at 7.30 p.m. Annual meeting.

Friday, May 9

WEST HAM ASSOCIATION OF PHARMACISTS, Stratford Church Institute, 27 Romford Road, Stratford, London, E.15, at 8.15 p.m. Annual meeting.

TRADE NOTES

Dust Sheets.—A leaflet giving prices of protective covers "in any material, for any purpose, any size," may be had from L. H. Hill, 2 Catherine Road, Romford.

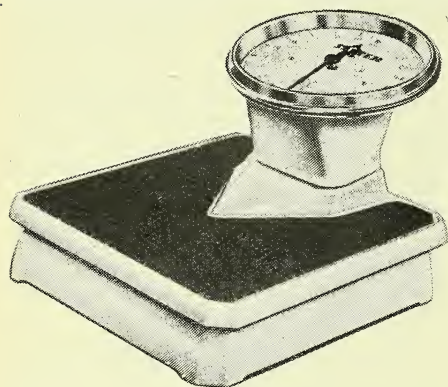
Weighing Machines in Colour. — Previously available only in white, the personal weighing machine No. 201 manufactured by George Salter & Co., Ltd., West

ley. Only one retail size will henceforth be available, the 500 size being made a dispensing pack.

Formula Modified. — From May 1, Roche Products, Ltd., Welwyn Garden City, Herts, are supplying Allonal tablets made to a modified formula against all orders. Each tablet will contain allyl-isopropyl barbituric acid, 50 mgm., and isopropyl antipyrine, 110 mgm. The change has been made to meet the wishes of the medical profession. Dealers are asked to dispose of present stocks before commencing to supply the new packings. The modified product is subject to purchase tax.

Make-up for Summer 1952. — Coty (England), Ltd., 3 Stratford Place, London, W.1, in introducing their Carioca Airspun powder and sub-tint foundation, have "drawn their inspiration" from Bermuda, where the current fashion is for a "cool, matt, iced-coffee-with-cream" complexion. Messrs. Coty suggest that "the way to look this summer" is "clear skin, coolly tanned; wide eyes softly shaded, natural mouth, coloured with exotic bitter pink" (Crimson Petal lipstick).

Camera Sales to Overseas Visitors. — R. F. Hunter, Ltd., Gray's Inn Road, London, W.C.1, draw attention to the possibilities of selling Rolleiflex and Rolleiord cameras to certain overseas visitors, who may have the cameras placed on board their ship or aircraft on leaving the country, without the payment of English duty or purchase tax. The scheme applies to all foreign visitors to this country except residents of the sterling area (i.e., the overseas visitor should have a passport of a non-sterling area country). Dealers may accept either sterling notes or travellers' cheques, or the customer may pay by debiting an account appropriate to his country of residence. Full details may be obtained from Messrs. Hunter.



Bromwich, is now supplied in white, cream or eau de nil. Each machine is now individually boxed in a strong carton. The price is unchanged.

Face Squares in Colours.—United Cotton Mills, Ltd., 71 Mosley Street, Manchester, 2, offer their range of Gaydex face squares in white and colours and with jacquard or chenille borders.

Change in Invoicing System.—Innoxia (England), Ltd., 1 Eden Street, London, N.W.1, are now (since April 1) charging out preparations on invoices at net price per doz. before adding purchase tax. Retailers' discounts are unaltered.

Change of Presentation.—James Woolley Sons & Co., Ltd., Victoria Bridge, Manchester, 3, advise a change in presentation of frangula compound tablets, Wool-



WHERE TO FIND THE

PRICE
CHANGES

Commencing this week, makers' price changes appear on the last page of the Pink Supplement. The advantage is twofold. First, the sheet may be torn off and pinned up in the shop. Secondly, changes notified up to eight hours later than items in the editorial pages can be included.

NEW PRODUCTS AND PACKS

Ergometrine Tablets. — Allen & Hanburys, Ltd., Bethnal Green, London, E.2, announce the introduction of tablets of ergometrine maleate, B.P.C., each containing 0.25 mgm.

Available in Vials.—In response to demand, Ciba Laboratories, Ltd., Horsham, Sussex, are now marketing Priscol parenteral solution in a 10-c.c. rubber-capped vial. The solution is of the same strength (25 mgm. per c.c.) as in Priscol ampoules.

New Size.—The Distillers Co. (Biochemicals), Ltd., Fleming Road, Speke, Liverpool, 19, announce that streptomycin and dihydrostreptomycin D.C.(B.)L., are now available through the company's usual distributors, in vials of 5 mega units.

Hair Set, Conditioner and Curler.—Golden, Ltd., 2 Dean Street, London, W.1, are marketing a new hair speciality introduced from France (l'Oreal, Paris): Tress, a product that "conditions, curls, vitalises the hair." The new speciality in its window carton is illustrated and described on another page.

A New Night Cream.—J. & E. Atkinson, Ltd., 24 Old Bond Street, London, W.1, have introduced a night cream with "a carefully blended moisture as well as oil and fat content." This gives it, of course, a greater power of absorption, making it especially suitable for dry skins. The product is issued in jars. It is not yet available for export.

Fungicidal Skin Cream.—For the treatment of common skin disorders Aero-ped, Ltd., 35 Bessborough Place, London, S.W.1, have introduced Aero-medic P.M.N. dermatological cream, a general-purpose antiseptic and fungicide. The product contains 0.025 per cent. w/w phenylmercuric nitrate and is issued in 1-oz. and 8-oz. jars.

Choline Syrup.—Vitamins, Ltd., Upper Mall, London, W.6, have introduced Cholinvel, an agreeable liquid preparation of choline dihydrogen citrate. The citrate is understood to have the same therapeutic action as choline chloride, without the disagreeable flavour. It is being used for conditions associated with disordered liver function. Cholinvel is issued as a 10 per cent. solution in bottles of 6 fl. oz.

New Cosmetic Shade.—Yardley & Co., Ltd., 33 Old Bond Street, London, W.1, have added to their colour range "bright

red," which is at its most attractive on a fair skin, but lends a sun-tanned appearance to the sallow complexion. Bright red, say the makers, has been tested on teenagers, those well out of their teens, the fashion-conscious, and women of an older generation: all who have used it have been delighted with the results. In the Yardley range, bright red comes before holly red and after cherry. Lipstick and rouge are available.

A New Antimalarial. — A new antimalarial agent, Daraprim brand pyrimethamine (2:4 diamino-5-(4-chlorophenyl)-6-ethylpyrimidine) has been developed at the Wellcome laboratories and is now available from Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1. Experimental tests *in vitro* and upon animals showed it non-toxic yet effective against various types of plasmodia. Its potency in human malaria has been confirmed by clinical reports from many parts of the world. For treatment, a single dose of 50 mgm. (in some cases less) has been found adequate to clear the parasitaemia and relieve the fever in acute attacks. For suppression, a weekly dose of 25 mgm. (12.5 mgm. in children) has proved effective. Daraprim is tasteless, well tolerated, and suitable for mass treatment. It is issued as 25-mgm. scored compressed products in strip-packs of six and bottles of thirty and 1,000.

Medical Specialities. — The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, have recently issued Viscardan (khellin, B.D.H.), a crystalline glycoside isolated from the seeds of *Ammi visnaga*. Chemically 2-methyl-5:8-dimethoxy-6:7-furano-chromone, Viscardan is a vasodilator and antispasmodic with a prolonged action. It is issued in tablets of 50 mgm. in bottles of twenty-five and 250 tablets. The company have also made available Vibelan Forte in tablets each containing: Vitamin B₁, 6 mgm.; riboflavin, 2.5 mgm.; nicotinamide, 15 mgm.; folic acid, 2 mgm., and vitamin B₁₂, 5 microgm. in a lactose base. The product is formulated to counteract the inhibiting action of sulphonamides and antibiotics on the B-complex-forming activity of the intestinal flora. It is issued in bottles of fifty and 500 tablets. Vitamin C.B.D.H. (ascorbic acid) also made available, is in tablets containing 200 mgm. (4,000 i.u.), in bottles of twenty and 100 tablets.

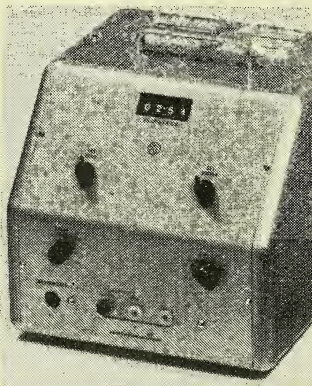
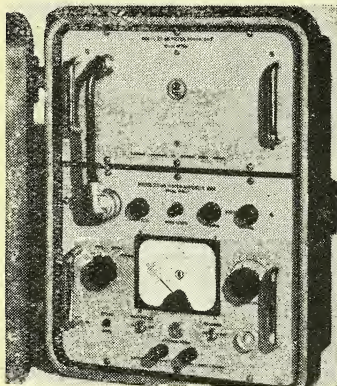
NEW DEVELOPMENTS IN APPARATUS

A TREND towards the complete mechanisation of chemical laboratory processes was evident at the thirty-sixth exhibition of the Physical Society in London recently, and was exemplified in an automatic titration apparatus shown by ELECTRONIC INSTRUMENTS, LTD., 17 Paradise Road, Rich-

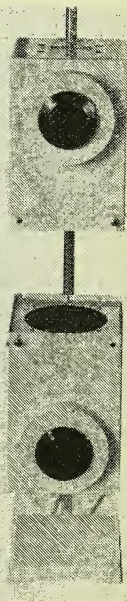
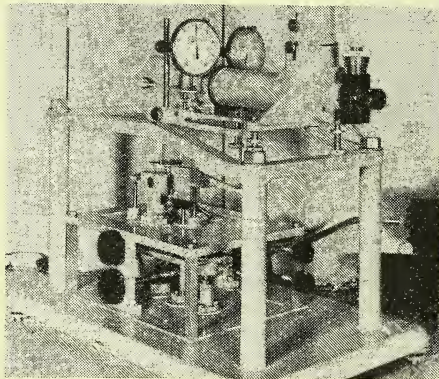
mond, Surrey. The apparatus consisted essentially of a pH meter measuring the pH of the solution being titrated, and an electrically controlled measuring mechanism (made by Apis Engineering & Research, Ltd.) which shot small quantities of the titrating liquid at predetermined intervals into the titration beaker, the liquid in the beaker being stirred constantly with an electric stirrer. The electrical mechanism was set to be stopped when a predetermined pH value of the liquid had been reached. The number of "shots" of liquid was constantly recorded on a

counter so that at the end of the process the total amount of titration liquid used could be ready almost directly. The apparatus is still in an experimental stage, and for speeding the process an improvement is being considered whereby large shots are used at the beginning of the titration and smaller shots towards the end.

Also incorporating a counter so that the results may be read directly and the apparatus readily used by unskilled



TOP LEFT: A transmitter (Electronic Instruments, Ltd.), for pH control and recording in industrial chemical processes. **TOP RIGHT:** A counter-recording self-balancing pH meter (W. G. Pye & Co., Ltd.) for use by unskilled operatives. **RIGHT:** Machine for studying balance knife-edge wear (L. Oertling, Ltd.). **EXTREME RIGHT:** Infra-red evaporating and crystallising unit (Baird & Tatlock (London), Ltd.). Its use eliminates bumping, etc.



mond, Surrey. The apparatus consisted essentially of a pH meter measuring the pH of the solution being titrated, and an electrically controlled measuring mechanism (made by Apis Engineering & Research, Ltd.) which shot small quantities of the titrating liquid at predetermined intervals into the titration beaker, the liquid in the beaker being stirred constantly with an electric stirrer. The electrical mechanism was set to be stopped when a predetermined pH value of the liquid had been reached. The number of "shots" of liquid was constantly recorded on a

workers for routine checks was a new automatic self-balancing potentiometer shown by W. G. PYE & Co., LTD., Granta Works, Cambridge. The instrument is sensitive to a change of 0.01 pH and the counter runs back to zero on pressing a knob. The only skilled adjustment that is required is to set the buffer solution daily.

A new design of potentiometric titration apparatus suitable for use with any type of potentiometer was shown by BAIRD & TATLOCK (LONDON), LTD., 14 St. Cross Street, London, E.C.1. The titration beaker is placed on a metal plate which can

be heated electrically, and more efficient stirring has been provided. Karl Fischer moisture determining apparatus was also on the company's stand; TOWNSON & MERCER, LTD., Croydon, Surrey, and others. Townson & Mercer also showed a silent taker, the speed of which was controlled by a stroboscopic arrangement.

New Balances

Among new developments in balances shown was the Releas-O-Matic controlled beam-release by L. OERTLING, LTD., 110 Gloucester Place, London, W.1. Research in the company's laboratories had shown that most of the wear on knife edges was caused by the impact of balance beams in the knife edges. Their Releas-O-Matic mechanism controls by means of a plunger and cylinder the speed at which the beam comes to rest on the knife, thereby eliminating the human element. To save time where repetitive weighings have to be made, the BRITISH IRON & STEEL RESEARCH ASSOCIATION, 11 Park Lane, London, W.1, have designed a quick-acting direct reading balance. The apparatus shown gives weighings of up to 5 gm., with an accuracy of ± 1 mgm., and a response of approximately one quarter second. That performance is achieved by the use of an electrical-force balance system, and a light but rigid construction for all moving parts. A new semi-micro balance giving a quick reading was shown by STANTON INSTRUMENTS, LTD., 119 Oxford Street, London, W.1. The beam is protected from heat radiation and air currents by means of a horizontal shelf.

New glass apparatus shown by QUICKFIT & QUARTZ, LTD., Quickfit Works, Stoke, Staffs, included a glass fume-duct specially made for Kjeldahl digestion flasks, each flask being directly vented into a large glass duct, so preventing the fumes from entering (and attacking) the fume cupboard. A newly devised glass non-return flap-type valve was shown in use in transferring liquid from one vessel to another by remote control. It is particularly suitable for poisonous and dangerous liquids. GLASS DEVELOPMENTS, LTD., 47C Sudbourne Road, London, N.W.2, showed an all-glass apparatus for the determination of molecular weight. A. GALLINKAMP & Co., LTD., 17 Sun Street, London, E.C.2, showed among a range of new laboratory apparatus a new general purpose water bath or instrument steriliser and a minimum free-space oven and desiccator.

Among the optical instruments were

low-powered binocular microscopes on the stand of W. WATSON & SONS, LTD., 313 High Holborn, London, W.C.1; a new top light illuminator by SARTORY INSTRUMENTS, LTD., 7 Steele Road, London, W.4, and an experimental machine giving much larger magnification than has been normal with ordinary microscopes using a scanning spot and television tubes (C. & D., 1951.I.443) by AVIMO OF TAUNTON, Somerset.

THE BRITISH OXYGEN CO., LTD., Lombard Road, London, S.W.19, showed a magnetic oxygen meter, a portable instrument intended primarily for use in hospitals for measuring oxygen concentration inside oxygen tents. A porous material which is not wetted by many liquids, which normally wet those materials was shown by DOULTON & Co., LTD., Albert Embankment, London, S.E.1. It is applicable to the diffusion of gases into liquids. Developments in ultrasonics were shown on the stand of MULLARD, LTD., Century House, Shaftesbury Avenue, London, W.C.2. On the same stand was exhibited precision glass tubing which is made by drawing glass over a mandrel and is accurate to one five-thousandth of an inch. Its application in the manufacture of syringe barrels eliminates barrel-grinding. W. EDWARDS & Co. (LONDON), LTD., Worsley Bridge Road, London, S.E.26, showed a new mercury diffusion pump working at a pressure of 15 mm., and a new oil diffusion booster pump.

RADIOACTIVE TRACERS

AN address on "Radioactive Tracers in Biology and Medicine" was given at a recent meeting of the Durham County Branch of the Pharmaceutical Society by Mr. P. Reasbeck (Londonderry laboratory for radiochemistry, University of Durham). After discussing the discovery of radioactivity, atomic structure, the properties of radioactive elements and instruments for the detection and measurement of radioactivity (including the Geiger counter) the speaker dealt with the theory of isotopy.

An outline of the methods of dealing with biological or medical problems by means of radioactive tracer techniques was given with reference to choice of isotopes, methods of synthesis, detection and measurement of the distribution of a compound in a plant or animal subject. The three chief uses of tracers were for the study of metabolism, diagnostic studies on human beings and therapy.

NATIONAL PHARMACEUTICAL UNION

MEETINGS of the Executive of the National Pharmaceutical Union and of the directors of the Chemists' Defence Association, Ltd., were held in London on April 23, Mr. P. Varley (president) in the chair at the commencement.

Election of Officers

Mr. D. W. Hudson was unanimously elected *Chairman* of the Executive, and of the directors of the Chemists' Defence Association, Ltd., and the retiring chairman invested him with the chairman's chain of office. Mr. HUDSON, accepting office, thanked the Executive for the confidence they had placed in him. He thanked Mr. Varley for the service he had given to the N.P.U. and its allied organisations, particularly during his year as chairman, and presented him with the past-chairman's jewel. MR. VARLEY replied. Mr. H. Holmes was elected *vice-chairman*, and Mr. S. J. Stearn, J.P., was unanimously re-elected *Treasurer*. Committees and representatives to committees of other organisations were elected.

THE SECRETARY (Mr. H. Noble) reported that the Brewers' Society and other interested trade organisations had recently issued to chemists in Portsmouth (and possibly other areas) a display bill indicating that it was dangerous and "illegal" to put paraffin, turpentine, etc., into mineral water, beer, or milk bottles. He pointed out that, while there was a Statutory Regulation that made it an offence to misuse milk bottles, the N.P.U. had always held the view that there was nothing "illegal" in supplying household fluids in mineral water or beer bottles. He had consequently communicated with the organisations concerned challenging their statement. He further reported that no provision had been included in the Finance Bill under which the Treasury could operate a rebate scheme in the event of purchase tax rates being removed from particular ranges of goods. Efforts were being made through the National Chamber of Trade to secure a debate on the matter at the Committee stage. Mr. Cyril Osborn, M.P. for Louth, was to table an amendment to the Bill which, if accepted, would provide that unregistered traders holding stocks of taxable goods should be allowed a rebate on the tax paid. Approaches had been made by the N.P.U. to certain M.P.'s who had promised support.

THE SECRETARY reported that the Fair

Trading Congress (the parent body of the Fair Prices Defence Committee) had met to consider possible inter-trades action to resist the operation of free-gift schemes introduced particularly by manufacturers of American origin. The type of scheme explored was one in which goods of one trade were sold and goods of another were given away. Discussions had been initiated between the National Federation of Grocers' Associations and the National Federation of Ironmongers on their specific problem. It was hoped that other trade associations in the Congress would put pressure on manufacturers operating such schemes. It was resolved that members of the N.P.U. should be advised not to participate in such schemes, and that action on the matter should be co-ordinated with that of other retail trade organisations.

Branch Resolution

The following resolution submitted by the Halifax branch was received and considered:—

"That the N.P.U. should be asked to recommend Reckitt & Colman, Ltd., back to the former method of sale (through chemists only) of Dettol. The secretary was instructed to write the company deploring their change of sales policy, which the N.P.U. regarded as retrograde.

The chairman and secretary were appointed to attend, on behalf of the N.P.U., the Advertising Association Conference being held at Brighton, May 8-9.

Prescription Levy

THE CHAIRMAN OF THE CENTRAL N.H. COMMITTEE reported on discussions that had taken place with senior officers of the Ministry of Health on the prescription levy. Progress had been made on the acceptance by the Ministry of liability for non-payment of the levy where medicines were uncollected, or where the contractor had been unable to collect the levy. An offer made by the Ministry at an earlier meeting had been rejected, and discussions were proceeding on a revised offer. The committee had decided to call a conference of Pharmaceutical Committee representatives if, after negotiations on the levy were completed, any points outstanding were of sufficient importance to justify the expense.

THE CHAIRMAN reported on the terms of a claim for increased pharmaceutical service remuneration, which had been sent

to the secretary of the management side of the Pharmaceutical Whitley Council on April 1. He reported also that the consulting accountants were engaged in analysing completed questionnaire forms which had been received. The Ministry had agreed to add to the Drug Tariff a number of appliances about which representations had been made. The operative date would be June 1 and details would be given to contractors in the quarterly list of Drug Tariff amendments. Forty persons and firms who had applied for membership of the N.P.U. since the last meeting of the Executive Committee were elected members.

The Executive Committee entertained its retiring chairman (Mr. P. Varley) to dinner in London on April 22. MR. DONALD HUDSON, who presided, proposed a toast to the N.P.U., the SECRETARY replying. MR. W. T. REES proposed a toast to the retiring chairman. In reply, MR. VARLEY said how much he had appreciated the honour of serving as chairman.

Settlements Secured and Pending

In a circular to secretaries of Pharmaceutical Committees the secretary of the N.P.U. has given the information that the "co-op." dividend question has been satisfactorily settled, and that the present ("non-inducement") clause in the terms of service unmodified. "Some small financial advantage" has been secured for rural-area chemists who dispense to a substantial extent (see notice, p. 611) prescriptions that do not reach them directly from the patient's household, where the medicines are also issued to those households through indirect channels. The allowance will be to compensate for potential loss through uncollected levies over and above such potential loss as is likely to be experienced by urban chemists. It is proposed that the "uncollected medicines" and "hardship" cases referred to in paragraphs 3 and 4 of the appendix to the previous circular (U.L.756) shall be dealt with by a small payment per prescription to all contractors.

Provisional Conference Date

The Central N.H.S. Committee has decided that, if a further conference of Pharmaceutical Committee representatives is considered necessary on the prescription levy question, it will be held on May 21. Committees will first be asked to consider whether, in the light of a report on developments with the Ministry, a Conference is essential.

OFFICERS ELECTED

OFFICERS of Branches of the Society and other pharmaceutical organisations elected recently are as follows:—

Dewsbury Branch.—*Chairman*, Mr. G. Brooke; *Treasurer*, Mr. L. W. Bird; *Joint Secretaries*, Mr. K. S. Jefferson and Mrs. B. Jefferson, Wansfell, 535 Leeds Road, Dewsbury.

Registered Pharmacists' Union.—*President*, Mr. G. H. Sheard, B.Sc., Ph.C.; *Vice-president*, Mr. C. E. Churchfield, M.P.S.; *Treasurer*, Mr. D. J. Gibson, D.Sc., M.P.S.

Eastbourne Branch.—*Chairman*, Mr. H. J. Seath; *Vice-chairman*, Mr. A. H. Carter; *Treasurer*, Miss E. M. Temple; and *Secretary*, Mr. D. V. Warr, 47 South Street, Eastbourne.

Hull Chemists' Association and Branch.—*Chairman*, Mrs. Thelma L. McNicol; *Vice-chairman*, Mr. F. L. Booth; *Treasurer*, Mr. F. N. Harrison; and *Secretary*, Mr. J. J. Small, 3 Allderidge Avenue, Hull.

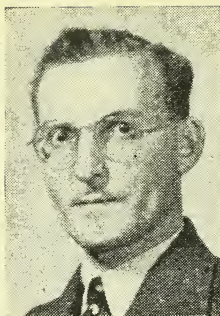
Thames Valley Association.—*Chairman*, Mr. W. S. Howells; *Vice-chairman*, Mr. A. D. N. Hocking; *Secretary*, Mr. H. E. Sullivan, 124 Ellerton Road, Surbiton, Surrey; *Assistant Secretary*, Mr. N. C. Jeffery.

Rhyl Branch.—*Chairman*, Mr. T. G. Anwyl; *Vice-chairman*, Mr. G. R. Lawrence; *Treasurer*, Mr. Ll. Parry; *Secretary*, Mr. C. W. Latham, 21 Bryn Avenue, Rhyl; and *Benevolent Fund Officer*, Mr. D. B. Goodall.

Plymouth Branch.—*Chairman*, Mr. C. C. U'Ren; *Vice-chairman*, Mr. T. S. F. Wallis; *Treasurer*, Mr. J. P. A. Fox; *Secretary*, Mr. W. H. Thomason, 10 Langstone Road, Beacon Park, Plymouth; and *Social Secretary*, Mr. W. J. Sale.

West Middlesex Chemists' Association.—*Chairman*, Mr. B. A. Williams; *Vice-chairman*, Mr. J. D. Ironmonger; *Treasurer*, Mr. J. G. Hayes; *Secretary*, Mr. R. C. Edwards, 265A Fulham Road, London, S.W.3; *Social Secretary*, Mr. J. W. Kitchener.

Wimbledon Pharmacists' Association.—*Chairman*, Mr. H. J. Newitt; *Vice-chairman*, Mr. K. C. Pretty; *Secretary*, Miss S. M. Radin, 5 Elm Close, Raynes Park, London, S.W.20; *Treasurer*, Mr. T. James; *National Pharmaceutical Union Secretary*, Mr. H. S. Fenton, 14 Worple Road, London, S.W.19; and *N.P.U. Branch Chairman*, Mr. J. F. Thomas.



Mr. W. S. Benjamin



Mr. F. H. Connelly



Mr. W. Cooper

CANDIDATES FOR ELECTION



Mr. H. Long



Mr. T. Reid



Mr. E. Robinson



Mr. G. Shaw

BIOGRAPHICAL details and policy statements of candidates for the British Pharmaceutical Society Council election on May 21:—

BENJAMIN, William Sidney

CHIEF pharmacist to the Putney General Hospital, London. He served his apprenticeship in Liverpool and qualified in 1932 from the Liverpool School of Pharmacy. He was engaged in retail pharmacy until 1946 when he became a hospital pharmacist. Chairman of the National Advisory Committee of the Association of Pharmaceutical Employees and secretary since 1938 of its London Advisory Committee. Member of the Pharmaceutical Functional (Whitley) Council (committee C) and secretary of the South-west Metropolitan Hospital Pharmacists' Committee. Member of the former Joint Committee on a National

Pharmaceutical member of of Health. ment as chief Park Hospital as a member of Pharmaceutical Society. rector of the Pharmacy. Chairman of the District Branch

CONNELLY

QUALIFIED in nine years twelve as manager of London, branch of London and positions during the war is the chairman



Miss M. J. Hincks



Mr. D. W. Hudson



Miss M. C. Islip

THE SOCIETY'S COUNCIL

several times to the Ministry previous appointment to the Botleys, Surrey, he served County of Surrey and of the Surrey Committee, and as Woking and County.

spent twenty-two years, the last Oxford Street, member of the County trade union twenty years; he is, of the

Retail Pharmacy Joint Industrial Council, chairman of the London Advisory Committee of the Association of Pharmaceutical Employees, chairman of the North-west and West End London Branches of the Union of Shop, Distributive, and Allied Workers, and treasurer and past-chairman of the London Federation of U.S.D.A.W.

JOINT policy of Messrs. Benjamin and Connelly:—We ask all employee pharmacists to give us their votes at this year's Council election. Employee pharmacists constitute the largest proportion of the Society's membership, yet their views are largely disregarded over the most important problems of the day. They must organise together as powerfully as their employers have done, if they are to influence effectively developments in pharmacy which are of vital concern to them. It is

also essential for them to make a real effort to secure effective representation on the Society's Council. Whilst we do not consider that the election of employee candidates will solve all the employees' problems, no one will question the value of them being on the Council to put forward the employees' point of view whenever their interests are affected. We are active members of an organisation—the Asso-



Mr. C. W. Maplethorpe



Mr. W. J. Tristram



Mr. B. A. Williams

ciation of Pharmaceutical Employees—pledged to serve the interests of employee pharmacists. If, therefore, you elect us to the Council we should regard ourselves not just as individuals but as your representatives; we should make it our business to keep close contact with all of you so as to report back to you and ascertain your views. In asking you to give us your votes we appreciate that some of our views may not be shared by every employee. We believe, however, that all will see the value of having for their representatives men who have always devoted themselves wholeheartedly to the cause of the employees.

COOPER, William

APPRENTICED with the late Mr. A. H. Cooper, Bath. Qualified as chemist and druggist in 1911 after training at the Bath and West of England School of Pharmacy (silver medallist). Passed the Pharmaceutical Chemist examination in 1912. Pharmaceutical Society's bronze medallist, 1913. Served with the Special Brigade, Royal Engineers, 1915-19. Appointed lecturer in pharmaceuticals at "Bath and West" School of Pharmacy, 1919; lecturer in Pharmaceuticals, 1929, and head of the School of Pharmacy, Merchant Venturers' Technical College (now The College of Technology), Bristol, 1945. Joint secretary of the Bath Branch of the Society, 1925-27.

POLICY:—I have accepted nomination as a candidate in the Council election because I believe I can render service to the profession, particularly on account of my experience in pharmaceutical education. I do not agree with suggestions made in certain quarters that we should develop a type of registered assistant because I am sure that such people would, after gaining experience in that capacity, eventually sue for registration as pharmacists. I remember that in 1920 the Pharmaceutical Society was forced to register a number of holders of the Apothecaries Hall Assistants Certificate and that the vigorous protests of the members of the Society were unable to resist the pressure from outside. The section (S.4 of the Act of 1908) under which this was done is still on the Statute Book and I consider that it should be repealed. The practice of pharmacy does not lend itself to division into principals' work and assistants' work in the way medicine can be separated from nursing and dental surgery from dental mechanics. There were registered assistants under the Act of 1852 but these became registered

Chemists and Druggists under the Act of 1868 and we ought not to risk a repetition of this process which would nullify the efforts made during the past twenty years to enhance the status of pharmacy and improve the remuneration of pharmacists.

ELDER, William Todd

RETAIL pharmacist, aged fifty-two. Proprietor of two pharmacies. Has had twenty-five years' experience of retail business on own account. Served apprenticeship with the late Mr. P. A. Abel, Inverurie, Aberdeens. After service in the 1914-18 war, joined the staff of R. Gordon Drummond, Falkirk, and later of Mr. A. P. Wallace, Aberdeen. Has had over twenty years' experience of executive work, as follows: President, Chemists' Federation (member of council since 1943); member of Executive of Scottish Pharmaceutical Federation; past-chairman, Scottish C.F. Committee; past-president, Aberdeen Pharmaceutical Association; member of Executive of Scottish Department, Pharmaceutical Society; secretary, Aberdeen and North Eastern Branch of Pharmaceutical Society for eleven years; secretary to Aberdeen and North Eastern Pharmaceutical War Committee; past-member, General Council of Panel Chemists and Standing Committee (Scotland); member, Aberdeen Local Pharmaceutical Committee.

POLICY:—It is essential that the prestige and dignity of our profession shall be enhanced and stimulated to the highest practical level. Our professional status can be assessed by the appearance, layout and atmosphere of the pharmacies and dispensaries of this country. I approve of the modern pharmacy, where the dispensing department and space allocation to the sale of drugs and medicinal products are predominant. Unfortunately, from a business point of view, the retail pharmacist must stock allied products. These products should be of the type which would not lower the prestige of our profession. The Council should consider this and recommend a reasonable minimum standard. The standard of education must continue but I do submit that an apprenticeship of two years should be served in a pharmacy or hospital dispensary prior to the commencement of the pharmaceutical course. I also urge that the course of training should include the Code of Ethics. I am associated with the Chemists Federation because of my sincere belief in the principles of that organisation. I am firmly con-

vinced that if C.F. principles were practised universally throughout the country it would go far to elevate the standard of retail pharmacy. I consider it the duty of the Council to safeguard the professional interests of all pharmacists and secure for them a rightful place in the particular sphere in which they serve, whether hospital, public service, H.M. Forces, or in private practice.

HINCKS, Mildred Janet

QUALIFICATION:—The Chemist and Druggist (from the College of the Pharmaceutical Society, in July 1936). *Apprenticeship* served with Wands, Ltd., Leicester, and Mr. C. J. Reid, Eton. *Experience*. 1936-40, qualified assistant to Mr. J. Downing, Archway Road, Highgate, London, and varied locum work in retail and hospital. 1940-43, Ministry of Pensions Hospital, Newquay, Cornwall. 1943 to present, Slough Emergency Hospital (now Upton Hospital), Slough, Bucks. *Committee Experience*. Past treasurer of the Slough and District Branch, secretary for five years, now vice-chairman. Hospital representative on the Buckinghamshire Pharmaceutical Committee. Assistant publications officer for the National Association of Women Pharmacists.

POLICY:—I would assure you, the voters, that my interests are with all branches of pharmacy. Nevertheless, it is true that it is easier to appreciate day to day problems when they form part of one's own work. In 1943 I came to the Slough Emergency Hospital. One room, one pharmacist, equipment almost nil. Now, two pharmacists, total staff six and a department in which it should be possible to make most things on which a financial saving can be shown. Costing and accounts should be taught to all pharmacists whether their future career lies in retail, hospital, factory or college. Something must be decided soon regarding the question of unqualified help. It is inevitable that we should use such help in the hospitals as is done in the factories. The number of women in pharmacy is increasing. As assistant publications officer and this year's liaison officer for the N.A.W.P. the knowledge gained has given me a further insight into other people's problems. Retail experience, at first hand prior to 1939, and more recently by proxy through my colleagues on the Buckinghamshire Pharmaceutical Committee, together with five years as secretary to the Slough and District Branch, has

not left me in complete ignorance of "so-called" retail problems. The proposed shilling levy concerns us all. As delegate to many Branch Representative meetings, I realise that liaison between branch members and members of Council is vital to pharmacy today.

HUDSON, Donald William

QUALIFIED 1919. Managing director, Parris & Greening, Ltd., Hove. Chairman, Local Committee of the British Pharmaceutical Conference, 1948. Chairman, Brighton and Hove Branch 1945-48. Chairman, Brighton and Hove Association of Pharmacy 1943-48. Member of Council, Pharmaceutical Society. Chairman, Public Service Committee. Chairman, British side, Franco-British Pharmaceutical Commission. Chairman, Franco-British Pharmaceutical Congress, 1951. Member Joint Formulary Committee of the Pharmaceutical Society and British Medical Association. Member Parliamentary and Scientific Committee. Chairman (see p. 604) National Pharmaceutical Union. Member of Central N.H.S. (Chemist Contractors) Committee. Pharmaceutical Functional (Whitley) Council and numerous sub-committees. Chairman, Joint Industrial Council for Retail Pharmacy. Member of council Chemists Federation, past-chairman, Standards Committee. Fellow of Institute of British Surgical Technicians (Inc.) and member of Surgical Instrument Manufacturers' Association.

POLICY:—My policy has remained unchanged throughout the thirty-five years in which I have been engaged in retail practice. My experience has proved that the individual pharmacy conducted on comprehensive and scientific lines has been capable of providing every necessary pharmaceutical service and I am satisfied that under proper terms and conditions will continue to do so in the future. I believe that the organisation of pharmacy in Great Britain is the best that is to be found anywhere in the world. I shall endeavour to maintain and improve these conditions by every means in my power. If re-elected I shall be guided by my own common-sense and experience in all matters.

(To be concluded)

Collection of Photography Proposed.—An appeal for the starting of a public collection of photographic art and apparatus was made in a letter to *The Times* recently.

COLOURS FOR OPERATING-THEATRE FLUIDS

Report by Codex Revision Committee

IN a report published by the Pharmaceutical Society, the findings are given of a subcommittee set up by the Codex Revision Committee in response to a request by the Ministry of Health for a standard range of non-injectable fluids used (a) for the storage of ampoules and syringes, and (b) for sterilising the skin. The subcommittee, formed in January 1950, comprised Messrs. T. D. Whittet (chairman), A. C. Adamson, H. S. Grainger, J. W. Hadgraft, C. W. Peck, J. W. Soulsby and A. Sterling. The subcommittee's report was accepted by the Codex Revision Committee on June 21, 1950. The Committee affirm that they have not considered whether or not the colouring of non-injectable fluids for those purposes is desirable. The fact that they have complied with the Ministry's request must not be taken to mean that they necessarily approve of colouring such fluids.

Types of Non-Injectable Fluids

The non-injectable fluids have been classified as follows:—Solutions (a) of local analgesics for topical use; (b) for storing ampoules; (c) for storing surgical instruments; (d) for storing hypodermic syringes; and (e) fluid preparations for skin disinfection or cleaning.

The Committee were guided by the principles that colour should not be used for identification; that dyes already described in the British Pharmaceutical Codex or British Pharmacopœia should be used in preference to unstandardised dyes; that wherever the use of a particular colour in connection with a certain substance had become generally well established, that association should be maintained (for example, solutions of mercuric chloride are generally coloured blue and solutions of phenol, red); that the use of violet is undesirable, since solutions so coloured resemble methylated spirit (in particular, industrial methylated spirit should not be coloured violet); that solutions of local analgesics for topical use should be effectively differentiated as a group; that the question of colouring solutions for storage of hypodermic syringes should be restricted to alcohol (70 to 75 per cent. v/v); and that solutions for storage of ampoules should be replaced by one standard solution so coloured that gross contamination

of the contents of cracked ampoules by it may readily be detected.

The recommendations are that non-injectable fluid preparations used in hospital operating theatres should be coloured according to the following scheme:—

(a) **SOLUTIONS OF LOCAL ANALGESICS FOR TOPICAL USE.** Should be coloured green. Addition of 1 per cent. of compound solution of tartrazine, B.P.C., and 1 per cent. of solution of methylene blue (1 in 1,000) gives a suitable colour.

(b) **SOLUTION FOR STORING AMPOULES.** The following solution in closed glass vessels was found suitable pharmaceutically:

Chlorocresol	0.4
Solution of bordeaux B, B.P.C.	1
Distilled water to	100

It should be tested bacteriologically under conditions of use.

(c) **SOLUTIONS FOR STORING SURGICAL INSTRUMENTS.** Should be coloured by the addition of 0.2 per cent. of solution of bordeaux B, B.P.C.

(d) **SOLUTION FOR STORING HYPODERMIC SYRINGES.** Alcohol (70 to 75 per cent. v/v) used for this purpose should be coloured with 0.1 per cent. of magenta.

(e) **FLUID PREPARATIONS FOR SKIN DISINFECTION OR CLEANING.** Preparations that possess no intrinsic colour should be coloured as follows:—

(i) *Cetrimide.* Aqueous solutions should be coloured yellow with compound solution of tartrazine, B.P.C. The addition of 1 per cent. of compound solution of tartrazine to solutions containing 1 per cent. of cetrimide gives a suitable depth of colour.

(ii) *Industrial Methylated Spirit.* Should be coloured with 0.01 per cent. of magenta.

(iii) *Solutions of mercurials.* Solutions of mercuric chloride should be coloured with methylene blue (suitable range of dilution, 1 in 100,000 to 1 in 500,000); of mercuric iodide and oxycyanide with eosin (suitable range of dilution, 1 in 100,000 to 1 in 500,000); of other mercurial compounds should be coloured red or blue (eosin was precipitated in aqueous solutions of phenylmercuric acetate and nitrate but methylene blue was found satisfactory for these substances).

(iv) *Fluid preparations containing phenols or chlorinated phenols.* Should be coloured red. Magenta was sometimes found to be precipitated from aqueous solu-

sions of phenol but solution of bordeaux 3, 1 per cent., was found suitable.

(v) *Ether*. Should be coloured yellow with a suitable dye such as: Fat orange R; oil yellow DN; or waxoline yellow IS, each 0.01 per cent.

(vi) *Preparations not mentioned in this section and new preparations* should be coloured in accordance with the recommendations (if none, yellow).

During investigations into a suitable solution for the storage of ampoules, it be-

came clear that the "burning-in" method of labelling ampoules was the one of choice.

The Committee wishes to record that it considers the addition of colour to solutions that are naturally colourless may lead very easily to errors if those handling such solutions should attempt to identify them by their colour. Wherever possible, containers should be labelled; it is desirable to use floating tubes containing a slip label in dishes containing solutions.

A.B.P.I. ANNUAL MEETING AND DINNER

THE annual meeting of the Association of British Pharmaceutical Industry, held in London on April 23, was attended by 134 representatives of eighty-six member firms, the president (Mr. J. C. Hanbury) in the chair. The result of a postal ballot for our members of Council was that Messrs. F. Armstrong (Eli Lilly & Co., Ltd.), N. Dewey (Allen & Hanburys, Ltd.), G. T. Morson (Thomas Morson & Son, Ltd.) and G. S. Woolley (James Woolley, Sons & Co., Ltd.) were elected. Possible amendments to the Association's constitution were the subject of a report from an expert committee. After a vigorous debate, the meeting recommended to the Council of the Association, by a large majority, that "positive and additional" steps were necessary towards public relations and publicity. The adoption of the productivity committee's report was reported last week *C. & D.*, April 26, p. 584).

Praise for the Industry

The annual dinner took place the same evening.

DR. FRANK CON ROBERTS (author of *The Cost of Health*), in proposing the toast to "The Pharmaceutical Industry," congratulated the industry on its export expansion, without which the great progress in research could not be maintained. The time might be coming, he said, when it would not be sufficient to think merely of expansion but when the industry, the medical profession and the public must exercise them in new ways of thinking. Mr. J. C. HANBURY (president) replied. He said the industry was the butt of many slanderous attacks, but its fine record could well withstand them. The industry was showing enterprise of the best kind in the present difficulties, and had a great part to play in the future.

COLONEL SIR WALTER ELLIOT, M.P., who, against expectation, was able to

attend, said that in his term of office as Minister of Health he had often been indebted to the industry.

MR. J. F. BOUCHER welcomed the Association's guests, among them Mr. F. W. Adams (registrar of the Pharmaceutical Society), Professor H. Berry, Dr. K. H. Capper (editor of the British Pharmaceutical Codex), Mr. T. C. Denston (editor of the British Pharmacopoeia), Mr. H. Noble (secretary, National Pharmaceutical Union) and Mr. J. Davidson Pratt (Association of British Chemical Manufacturers).

PROFESSOR D. M. DUNLOP (chairman of the British Pharmacopoeia Commission and professor of therapeutics and clinical medicine, Edinburgh University), replying for the guests, congratulated the industry on its magnificent work in improving and developing fundamental research, for which it deserved great credit.

RURAL AREA CHEMISTS

CONTRACTOR chemists in rural areas whose National Health Service dispensing involves, to a substantial extent, the dispensing of prescriptions which reach them indirectly from the patient's household, are invited by the Central N.H.S. Committee to send in to the Committee at 4 Queen Square, London, W.C.1, as soon as possible, the following particulars:—

(a) Name and address of contractor.

(b) Percentage of total dispensing made up of prescriptions received indirectly from the patient's household and which are dispatched through a third party to the patient's household.

(c) Average total number of prescriptions dispensed per month.

The information is required for carrying to completion with the Ministry of Health necessary negotiations on the proposed levy scheme so as to make it reasonably workable in rural areas.

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VOL. CLVII MAY 3, 1952 No. 3767

Confusion over Colours

ONE of the first things to strike a reader of the report on colourings for operating-theatre fluids (p. 610) is that it was "accepted" by the Codex Revision Committee (from its subcommittee) in June 1950, but sees the light of day only in April 1952, twenty-two months later. It is not unknown for reports to be published and forgotten, but the present circumstances suggest that somebody, somewhere, would rather have had this particular report forgotten than published.

It is not difficult to understand why there are strong opponents to the use of colour as a means of distinguishing a non-injectable from an injectable liquid. In the course of time, surgeons and others in the operating-theatre would tend to "identify" a solution by its colour, and not trouble to check it carefully by the label.

The protagonists of colour would probably argue that, if practice could be made uniform in all hospitals, and if it could come to be accepted that any coloured solution was, *ipso facto*, non-injectable, then one strong safeguard at least would be in operation. To that point of view the report is, perhaps, helpful, because the recommended colouring matters where they vary are not aimed at distinguishing one coloured solution from another but at colouring every solution in a manner devoid of chemical or other objections. But what of coloured injection solutions? And are colour-blind people to be kept out of the operating theatre?

Colouring would normally show up a

gross error such as confusion between ether and procaine solution when both are "laid out" in an operating theatre, but the question of colouring is linked with the broader matter of theatre routine, and whether injectable solutions should ever be supplied to the theatre in bulk, from which they may, in practice, be "laid out" in unlabelled containers.

If checking the label is to be enforced, a *sine qua non* is that the label should be legible in all circumstances, and for that reason the recommendation is made that labels of ampoules should be of the "burnt-in" kind, proof against removal or obliteration.

The Codex Revision Committee, in circulating the report, has been at pains to point out that the Committee had not considered the question whether or not the colouring of non-injectable fluids of the kind under consideration is desirable or not. Seeing that, as the result of whatever prompting, the report has now been brought out of its pigeon-hole, it is clear that the question will have to be considered, as a matter of urgency, by a body competent to reach a decision.

N.H.S. £ s. d.

IN his statement as chairman to the shareholders of Evans Medical Supplies, Ltd. (see *C. & D.*, April 26, p. 564), Mr. Ian Fergusson had some illuminating comment to make on the sharp contrast between popular misconceptions of the enormous profits made by manufacturers of pharmaceutical products supplied under the National Health Service and the realities proved by Civil Estimates and companies' balance sheets.

The gross expenditure for the National Health Service in 1951-52 is on record in the Civil Estimates. It stands at £470.5 millions, of which the amount paid to chemists for both ingredient costs (covering dressings and appliances as well as drugs) and container allowances was £24.5 millions. To that must be added, for drugs and dressings supplied to hospitals, an amount of £10.9 millions. To arrive at the sum of money that went into the pockets of pharmaceutical manufacturers and wholesalers it is necessary to deduct a figure for container allowances, dress-

ings and appliances and add an amount for drugs dispensed by doctors and dentists. Those sums must to some extent be a matter of estimate, and Mr. Fergusson's own estimate was £7.4 millions, leaving £28 millions as the gross amount received by manufacturers and wholesalers. Using Inland Revenue statistics, Mr. Fergusson applies that figure in estimating the net profit on the goods supplied, and puts it at £1.5 millions (5.6 per cent. on 90 per cent. of home market turnover).

On that basis the most that would have been saved to the country if every manufacturer had supplied drugs to the nation without profit would have been £1.5 millions which, from £470.5 millions, would still leave the country spending £469 millions which from £470.5 millions, would not be taken as accurate to the fourth place of decimals, they do at least serve to put in perspective the "excessive" costs with which manufacturers are, by certain voices, accused of saddling the Service.

Overseas Trade in March

DURING March, United Kingdom imports continued at a high level though the save-the-£ restrictions had been in force for five months. The total value of imports was £333 millions (£30 millions more than in March 1951), whilst exports, with re-exports, were valued at £266 millions (£58 millions up). The excess of imports (valued c.i.f.) over total exports (valued f.o.b.) for the first quarter of the year totalled £212 millions, against £237 millions in the first quarter of 1951. Since exports in the second quarter are likely to be affected by the restrictions recently introduced by Commonwealth countries on imported goods, the prospect for the trade balance in the second quarter depends largely on how far the further effects of the cuts in United Kingdom imports will offset the normal seasonal increase in imports at this time of the year.

Pakistan was again the largest market for U.K. proprietary medicines, taking £59,200 worth out of a total of £557,539. The Union of South Africa and India came next, taking £49,000 each. The figure for quinine exports was, at £26,789.

the lowest recorded for six months. Other drugs, medicines and medicinal preparations totalled £2,364,884, of which India took £341,315 and Pakistan £183,476.

Total exports of all drugs, etc., were, £2,949,212, about £100,000 more than in February. Insulin continued to decline, and, at £30,240, was at the lowest figure recorded for many months. Aspirin exports (£56,302) dropped about £22,000 on the previous month, but ointments and liniments, £93,771, showed a slight improvement. Whilst penicillin salts, at £207,860, showed a decline of about £20,000 from the February figure, penicillin preparations, including ointments, lozenges and tablets (£54,889) were greater by £10,000 though they were only about one-half of those of March 1951 (£116,194). Penicillin injections were steady at £194,800. Antipaludics were at £81,805 and salicylphonamides (powder and tablets) £313,926. The values of most of the toilet preparations exported showed little change over the previous month. Toilet soap amounted to £170,236. Of the toilet perfumery and toilet preparations (excluding perfumed spirits, essential oils, and all soap) valued at £436,367, tooth pastes and dental mouthwashes, etc., accounted for £88,986, and cosmetics £169,284. Perfumed spirits were £50,806 and essential oils at £64,900 against £102,194 in February and £97,400 in January.

Imports of essential oils continued at the fairly high level of £523,896 (against £753,780 in March 1951). Only £150,500 worth came from the sterling area, while £196,364 worth came from Italy alone. During the month essential oils re-exports were at £36,201 and imported medicinal (prepared) re-exports were at £50,700. March imports of menthol were, £16,400, higher by £10,000 than in the previous month.

Among U.K. manufacturers the continuing high imports of (a) proprietary medicines and (b) all other sorts of medicinal must give rise to concern; these were £72,667 and £516,392 respectively during March, against £16,793 and £393,500 for the corresponding month of 1951 and £58,060 and £143,752 in 1950.

CORRESPONDENCE

Letters may be sent for publication under an assumed name, but the correspondent must furnish his real name and address to the Editor

Expensive Prescriptions

SIR,—A pricing bureau recently desired to arrange for prompt payment for my half-dozen "over 30s." prescriptions, total amount about £12 15s. Of course, they were entitled to do so, bearing in mind the "£25" rule. Do pharmacists realise what this means? Multiples, "co-prescriptions," etc., with their vast financial resources can, by amalgamating their prescriptions, obtain prompt payment for all over 30s. Almost all "one-shop" pharmacists, with their limited or non-existent capital reserves, are compelled to wait nearly a year. To label this "£25" condition as inequitable is an understatement. If the individual pharmacist swallows this iniquitous rule, he will swallow anything. I invite anyone interested in fighting this injustice to communicate with me.

Bexley, Kent. FRANK WARREN

The Educational Way Ahead

SIR,—Once again I must cross swords with Xrayser in consequence of his comments (*C. & D.*, April 19, p. 531) on a statement made and a resolution passed at the conference of the British Pharmaceutical Students' Association. I feel that he is guilty of an injustice to the speaker concerned. By taking the sentence out of its context he has given it an entirely different meaning from that which was intended. I would ask him to read question and answer again. The key to the meaning lies in the first sentence of the speaker's reply. The impression I obtained was that the speaker, by his sentence "Its interest is in itself," was referring to the new supplementary charter which, if obtained, would increase the scope of the Society and allow it once again to take up the challenge in a wider field on behalf of its members. That view was confirmed by a conversation I had with the speaker after the brains trust (the Press were not present). To comment upon Xrayser's second statement I must take a backward leap over the fence to my not so distant student days. The tendency today is towards chemotherapy (the word is used in its widest sense) as evidenced by the increasing number of synthetic drugs in the B.P., B.P.C., and their Addenda and Supplements. This means that the student has to have an ever-increasing knowledge of chemistry, which is encroaching upon

the other subjects of his syllabus. Pharmacognosy, I feel, has been whittled down by the Society to the barest minimum, and the next subject to come under the axe, this time by the colleges, must of necessity be the practical galenical periods (so increasing the theoretical knowledge of the student). Pharmacy is essentially a practical subject to the vast majority of pharmacists, who cannot get through a day's work by hypothetical deductions. In all the academic courses, except pharmacy, the student had a rudimentary knowledge of his subject by the time he had passed his Intermediate or second M.B. examination. There should be some kind of introductory course, either through the colleges or the Society, so that students will know what they will be undertaking in their final years, and be able to decide that pharmacy is the profession of their choice. Far too many students decide on pharmacy after being refused entrance into medical schools or other university courses. That preliminary course could weed out unsuitable people and direct others into branches to which they would be best suited.

S. M. BLAU, M.P.S.,

London, W.C.1. *Membership Secretary.*

A Plea for Uniform Containers

SIR,—I am concerned about the various types, sizes and shapes of bottles used by the wholesalers—small, medium, large, round, oval, and square. Could more or less standard sizes and shapes not be adopted? In these days of stress and small storage space, a square-type faced receptacle takes up much less room than a round squat receptacle, and a uniform size for different types of tablets would probably be much more acceptable for present-day dispensing than those at present used. This standardisation measure would help the dispenser greatly, and probably eliminate the "hide and seek" method of storing in vogue at present. I suggest that manufacturers should consider the matter carefully to see what can be done. There may be difficulties. But are difficulties not a spur to achieve something ideal?

SCOTTISH CHEMIST.

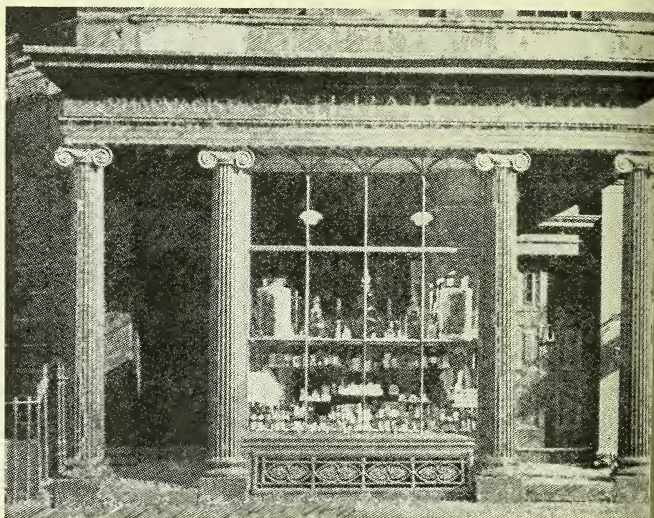
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THE PROFESSION IN PRACTICE

17.—An Officially Protected Bath Pharmacy

THE pharmacy at 8 Argyle Street, Bath, is scheduled as a building of historical and architectural distinction and preserved against destruction or desecration. Its cultured elegance, the careful proportions of its divided windows, and the restrained decoration of the ironwork beneath bespeak an origin contemporary with the 18th Century architecture for which the Roman City is justly renowned—suggest, even, that one of Bath's

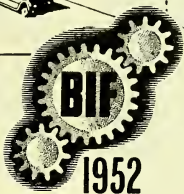


several famous architects may have had a hand in its design—yet the story, even of its occupants, is incomplete. An invoice dated 1859 (the year in which the *C. & D.*, was first published) bears the name "Francis Smith, Chemist," but whether other pharmacists preceded him it would need research into other records than those remaining at the premises to find out. A four-page leaflet of "Select and Proprietary Articles prepared at the establishment of Frederick Dunn, Chemist to the Queen" bears no date, but is probably earlier. It extols among other preparations Dunn's delectable lozenges, aromatic quinine wine, camphorated aromatic dentifrice, purified marrow oil, "Fluid Extract; or, Concentrated Compound Decoction of Sarsaparilla," and extract of odoriferous flowers, concluding with a "Public Caution.—To prevent imposition the Proprietor feels it his duty to communicate to the public, that the high reputation these articles have obtained, has induced some unprincipled persons to copy them for the purpose of deceiving the public, and imposing upon them spurious imitations, of a very inferior character. (An imprint shows that the leaflet was printed at "H. Silverlock's Steam Press.") It is on record that at various later dates the style of the business was successively W. Reed Watts, Ekin, Ekin & Appleby, Appleby & Stent, and F. R. Stent,

whose name in the illustration can just be discerned under the name of the last proprietor but one: A. H. Hale, who was the owner from 1939 to 1951.

In pre war days the business drew considerably for its clientele on nearby Penney Street, with its many private hotels providing accommodation for retired gentry, whether permanently resident in Bath or mere birds of passage. Many of the prescriptions entered in its books were regularly made up over periods of years and from far away came demands for medicines first made when their users presented the prescription at 8 Argyle Street. Good business was done, as might be expected in what was, at one time, a rendezvous of the world of fashion and elegance, in cosmetic toilet preparations. The 1939-45 war uprooted many guests from the hotels to make room for civil servants. The nature and size of the average purchase changed, but the pharmacy maintained its volume of sales and its reputation for eminence. Some of the numerous carboys that had graced windows and shelves were put away for safety, to be found as clear and perfect in their colors as ever when brought out again. A useful trade was built up in scientific apparatus and dispensing remained heavy throughout the change from private to N.H.S. The present proprietor is Mr. D. Vincent S.

BRITISH INDUSTRIES FAIR 1952



THE 1952 British Industries Fair is being held at Earls Court and Olympia, London, and Castle Bromwich, Birmingham, from May 5 to 16. The Fair is open to buyers daily from 9.30 a.m. to 6 p.m. Badges of admission (price 1s.) are obtainable at the entrances. In London the public are being admitted in May 10 and 14. **THE CHEMIST AND DRUGGIST** and the "Export Review of the British Drug and Chemical Industries" are represented at the stand of the Periodical Proprietors' Association, Ltd. (Olympia, A.10). Brief information on some of the exhibits is given below:—

OLYMPIA

INSTRUMENTS

Near the Addison Road entrance is the section of the Fair devoted to scientific and photographic apparatus. The exhibitors include the following:—

The Trumeter Co., Ltd. (B.5).—Counting instruments for automatic recording of work done by machines. Also at Birmingham (stand D.748).

Anchor Glass Co., Ltd. (B.6).—Scientific, laboratory, medical and surgical glassware, ampoules, vials, atomisers, droppers, test tubes, etc.

Kenneth Castiglione, Ltd. (B.10).—Hypodermic serum and syringes and spirit proof cases.

Easiwork, Ltd. (B.12).—Portable steam sterilisers and autoclaves.

The Tintometer, Ltd. (B.13).—Colour measuring instruments for colorimetric analysis, etc.

Southern Film Services, Ltd. (B.14).—Sofil minor 16 mm. sound projector and the Sofil exhibitor for daylight film advertising.

The British Rototherm Co., Ltd. (B.16).—Rotothermial thermometers, temperature controllers, temperature recorders, pressure recorders, and Rotostat thermostats.

Cygnat Joinery, Ltd. (B.19).—Laboratory furniture.

Quickfit & Quartz, Ltd. (B.22).—Scientific glassware and glass chemical plant.

Griffin & Tatlock, Ltd. (B.25).—Laboratory furniture and apparatus.

Apis Engineering & Research, Ltd. (B.26).—Liquid filling machines, ampoule fillers, and machinery to special design.

G. H. Zeal, Ltd. (B.29).—Glass-hydrometers, thermometers for clinical, household, laboratory and industrial purposes. Vapour pressure and mercury-in-steel dial indicating and recording thermometers.

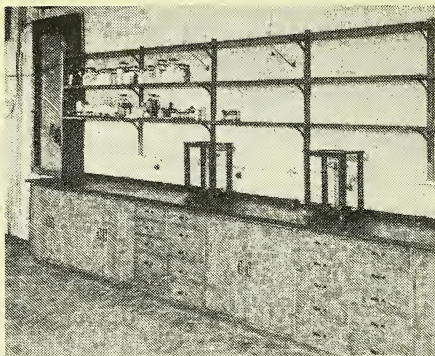
Micro Precision Products, Ltd. (B.32 and B.42).—Micro-technical, universal and other cameras.

Johnsen & Jorgensen Flint Glass, Ltd. (B.33 and B.41).—Ampoules and other containers made from glass tubing.

S. & R. J. Everett & Co., Ltd. (B.35).—Hypodermic syringes and needles.

W. & J. George & Becker, Ltd. (B.37 and B.38).—Laboratory furniture, scientific apparatus, chemicals and analytical reagents.

C. Baker of Holborn, Ltd. (B.39).—Microscopes, accessories and optical scientific instruments.



Laboratory furniture (Cygnet Joinery, Ltd.)

J. W. Towers & Co., Ltd. (B.45 and B.51).—Laboratory reagents and apparatus, including analytical balances, weights, volumetric glassware, electric ovens and incubators.

Amplion (1932), Ltd. (B.54).—Activette reactivator for hearing aid dry batteries.

S. Brannan & Sons, Ltd. (B.55).—Thermometers of all types.

CHEMICALS

Behind the instruments section (when approached from Addison Road entrance) is the chemicals section. The exhibitors include:—

British Industrial Solvents, Ltd. (C.1).—Solvents, plasticisers and other organic chemicals.

Edward Gurr, Ltd. (C.2).—Microscopical stains, mountants, reagents, biological laboratory sundries, etc.

Marchon Products, Ltd. (C.4 and C.12).—Sulphated fatty alcohols, wetting agents, detergents, organic chemicals, etc.

W. J. Bush & Co., Ltd. (C.5 and C.11).—Synthetic, fine and pharmaceutical chemicals, perfumery compounds, culinary essences.

George T. Gurr, Ltd. (C.8).—Microscopical stains, biological reagents, mounting media, etc.

Monsanto Chemicals, Ltd. (C.9 and C.10).—Acids, adhesives, detergents, fine and pharmaceutical chemicals, moulding compounds, plasticisers, etc.

Imperial Chemical Industries, Ltd. (C.14).—The exhibit describes the company's complete technical service.

British Geon, Ltd. (C.15).—Polyvinyl resins, plastic packing sheeting, etc.

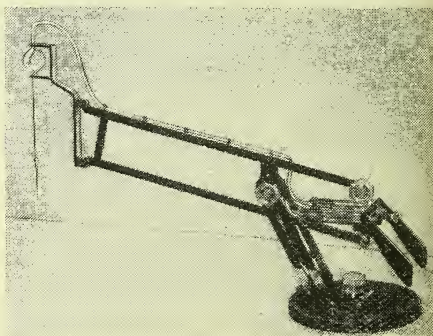
British Resin Products, Ltd. (C.15).—Cellulose acetate, polystyrene and phenol urea moulding materials; synthetic resins and chemical-resistant cements, tiles and floorings.

Carbon Dioxide Co., Ltd. (C.15).—Liquid and solid carbon dioxide.

The Distillers Co. (Biochemicals), Ltd. (C.15).—Penicillin, streptomycin, dihydrostreptomycin and vitamin B₁₂.

Walter Gregory & Co., Ltd. (C.16).—Veterinary medicines and instruments, "liquid powder" and aerosol insecticides, hypodermic syringes, etc.

Watford Chemical Co., Ltd. (C.17).—Insecticides, Estax emulsifiers, drugs, pharmaceuticals, moulding powders, anaesthetics, detergents, biologicals, vitamins, solvents, emulsifiers, etc.



Telepette for remote handling of dangerous liquids (Apis Engineering and Research, Ltd.)

Fullers' Earth Union, Ltd. (C.19).—Fullers' earth for pharmacy, and insecticides and Fulbent for emulsifying.

Spencer, Chapman & Messel, Ltd. (C.20).—Sulphuric and hydrochloric acids and distilled water.

Kaylene, Ltd. (C.21).—Analytical reagents, fine and pharmaceutical chemicals, pharmaceutical and veterinary preparations.

William Edge & Sons, Ltd. (C.22).—Drummer and Jiffy dyes, Drummer pine disinfectant, etc.

Roberts' Croupine, Ltd. (C.22).—Toilet and medicinal preparations including Roberts' Croupine cough syrup and Fam-Lax laxative tablets.

Whiffen & Sons, Ltd. (C.24).—Fine and photographic chemicals, pharmaceuticals, essential oils, etc.

Johnsons of Hendon, Ltd. (C.26).—Photographic chemicals and apparatus.

Pure Chemicals, Ltd. (C.28).—Synthetic organic chemicals and pharmaceuticals.

Shell Chemicals, Ltd. (C.30).—A control panel from which refinery processes are electrically supervised and a representation of a fractionating column are features of the stand.

A. Boake, Roberts & Co., Ltd. (C.31).—Solvents, plasticisers, soaps, perfumery chemicals, essential oils, preservatives, etc.

Petrochemicals, Ltd. (C.33 and C.42).—Catorex chemicals from petroleum (basic raw materials for most sections of industry).

Howards & Sons, Ltd. (C.34).—Pharmaceutical, cosmetic, detergent, photographic and other chemicals.

Laporte Chemicals, Ltd. (C.35).—Hydrogen peroxide, sodium percarbonate, x-ray barium sulphate, etc.

Hickson & Welch, Ltd. (C.36).—Organic chemicals and intermediate compounds for synthetic drugs.

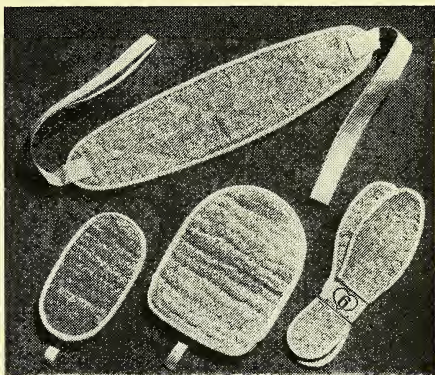
Newton Chambers & Co., Ltd. (C.37).—Insecticides, disinfectants, cleansers, anti-septic toilet rolls, etc.

Groda, Ltd. (C.39).—Surface-active agents and auxiliary materials for pharmaceuticals, cosmetics, etc.

Victor Wolf, Ltd. (C.43).—Glycerin, esters, etc.

Association of British Chemical Manufacturers (C.44).—The Association's officers on the stand will offer assistance to buyers in tracing the makers of any British chemicals they require.

Vinyl Products, Ltd. (C.45).—Synthetic resin emulsions, polymer solutions of polyvinyl acetate, polystyrene, etc.



Loofah articles (Loofah Products, Ltd.)

CHEMISTS' SUPPLIES

The sections dealing with chemists' supplies (D) and brushware and brush machinery (E) are behind the chemicals' section. Exhibitors include:—

Loofah Products, Ltd. (D.1).—Loofahs and loofah articles.

Leslie Marks & Co., Ltd. (D.1).—A range of Marksman sponges, loofahs, etc., for toilet and other purposes.

Matthews Laboratories, Ltd. (D.2).—Nostroline nasal remedy, Sterilia toothpaste, Dygerma germicide.

Gardner Co. (London), Ltd. (D.5).—Throat and nasal sprays.

Harry Green, Ltd. (D.6).—Toilet, household, industrial and other soaps, shampoos, cosmetics and perfumery.

Thermos (1925), Ltd. (D.7).—Thermos and Thervac vacuum flasks, jugs, jars.

Sparklets, Ltd. (D.8).—Sparklets syphons, carbon dioxide bulbs, carbon dioxide resuscitators, aerosol projectors, etc.

William Sessions, Ltd. (D.9).—Labeling and display material for the cosmetic, toilet and perfumery trades, including display stands and showcards.

T. J. Smith & Nephew, Ltd. (D.11).—Elastoplast bandages and dressings and other surgical sundries.



Presskil aerosol (Walter Gregory & Co., Ltd.)

Mayborn Products, Ltd. (D.13).—Dylon white dye in tablet form, and other Dylon dyes.

Frank Sammeroff, Ltd. (D.14).—Frank's adhesive plasters and other surgical sundries.

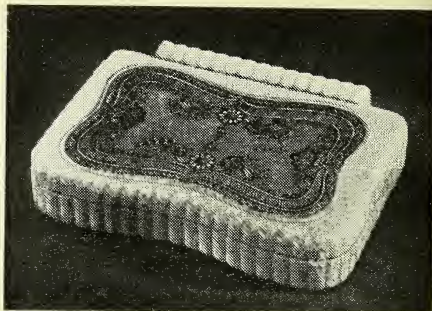
Potter & Moore, Ltd. (D.15).—Shaving soap, face powder, smelling salts, perfumes, etc.

British Chemotheutic Products, Ltd. (D.17).—Tablets (particularly of sulphonamides and vitamins), pills, capsules.

New Hygiene, Ltd. (D.18).—Air purifiers, deodorisers, disinfectants, insecticides, spraying instruments, etc.

Innoxa (England), Ltd. (D.19).—Barrier creams, skin ointments.

J. Allen Rubber Co., Ltd. (D.21).—Surgical gloves, finger stalls, bottle teats.



Manicure set (Scintillex, Ltd.)

Betts & Co., Ltd. (D.29 and D.33).—Collapsible metal tubes, containers for dentifrices and cosmetics, non-ferrous metal foils.

Fords (Finsbury), Ltd. (D.30).—Aluminium capsule making, applying and sealing machine. Automatic machine for capping and sealing vials of antibiotics, etc.

Manesty Machines, Ltd. (D.35).—Tablet machines, granulators, mixers, ovens, stills, mills, etc.

Culmak, Ltd. (E.2).—Shaving brushes.

Halex, Ltd. (E.4 and E.5).—Hair- and tooth-brushes, combs, etc.

Scintillex, Ltd. (E.4 and E.5).—Hair slides, side combs, etc.

Hindes, Ltd. (E.7).—Toilet and other brushes.

Spa Brushes, Ltd. (E.8).—Tooth-, nail-, dental plate-, and hair-brushes, dressing combs.

Coates Brushes, Ltd. (E.10 and E.13a).—Hair-, nail-, tooth- and other brushes.

Progress Shaving Brush Co., Ltd. (E.12).—Vulfix and London series shaving brushes, etc.

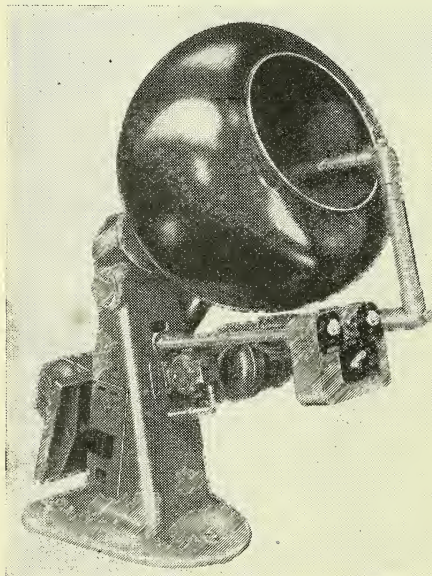
H. G. Benwell & Co., Ltd. (E.16).—Shaving and other brushes.

Addis, Ltd. (E.17).—Tooth-, nail- and hair-brushes.

SUNDRIES

Sections F and J dealing with sundry articles are situated at the left and right respectively of the Hammersmith Road entrance. Exhibitors include:—

National Cash Register Co. (Manufacturing), Ltd. (F.8).—Cash registers,



CP2 coating pan (Manesty Machines, Ltd.)

Helena Products, Ltd. (D.22).—Powder puffs, including sixty new products packed in containers or transparent cellulose tissue.

P. B. Cow & Co., Ltd. (D.23 and D.28).—Hot-water bottles, rubber sheetings, etc.

Dunlop Rubber Co., Ltd. (D.24 and D.27).—Hot-water bottles, rubber gloves.

Remington Rand, Ltd. (F.33, F.34, and J.203).—Electric shavers.

Rejafix, Ltd. (F.39).—Machines for printing on glass and other articles.

W R. Swann & Co., Ltd. (J.115).—Swann Morton surgical blades and handles, surgical instruments, ampoule files, etc.

Chalmers, Bros., Ltd. (J.502).—Toilet, shaving and other brushes, combs.

FANCY GOODS

The fancy goods section (Section K) extends round the sides of the grand hall at first floor level. Exhibitors include:—

Aberdeen Combworks Co., Ltd. (K.60).—Combs and hair slides.

A. S. Brown & Co. (Manufacturing), Ltd. (K.83).—Powder compacts, vanity cases, etc.

Searchlight Products (Engineers), Ltd. (K.32).—Powder compacts and other toilet accessories.

Jarrett, Rainsford & Loughton, Ltd. (K.46, K.47 and K.48).—Ladye Jayne hair-grips and other toilet accessories including a powder compact with an automatic mirror cleaner and the Ladye Jayne curl tidy.

E. R. Holloway, Ltd. (K.73).—Combs, unglasses, manicure and vanity cases.

EARLS COURT

Section R is on the ground floor the remainder are on the first floor:—

Glastics, Ltd. (R.1).—Glass bottles and jars for pharmaceuticals and cosmetics.

British Vitamin Products, Ltd. (S.8 and S.9).—Standardised and vitaminised everages, etc.

Energen Foods Co., Ltd. (T.13).—Dietetic foods.

Fryer & Co. (Nelson), Ltd. (T.9).—The company make pharmaceutical products to clients' formulas.

British Xylonite Co., Ltd. (V.12 and V.15).—Polythene flexible bottles and containers.

Hornflowa, Ltd. (V.12 and V.15).—Acid and alkali resisting flooring tiles, moulding powders, combs.

Imperial Chemical Industries, Ltd. (plastics division) (V.3).—The stand consists of a lounge with plastic decorations.

Plastic Engineers, Ltd. (V.20).—Packaging containers in polystyrene for pharmaceuticals and cosmetics.

BIRMINGHAM

The whole exhibition is on one floor. Section A (hardware) is nearest to the main entrance. Sections B (building and heating), C (electrical) and D (engineering) are, in succession, further from the main entrance.

George Salter & Co., Ltd. (A.407 and A.306).—Spring balances and weighing machines.

Joseph Sankey & Sons, Ltd. (A.515 and A.412).—Stainless steel surgical hollow-ware, etc.

Racasan, Ltd. (A.522).—Sanitary fluid for chemical closets, toilet tissue.

Cuxson, Gerrard & Co., Ltd. (B.516).—G.P. germicide, Adaptoplast elastic wound and other dressings, Phenodine antiseptic, first-aid cases, etc. The stand is equipped like an ambulance room.

Doulton & Co., Ltd. (C.411 and C.310).—Porous ceramic materials for filtration and diffusion, porous diaphragms.

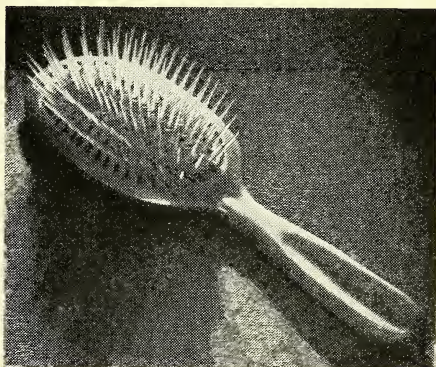
Chilton Electric Products, Ltd. (C.606).—Kub electric razors and Chilton transformer adaptors.

Siebe, Gorman & Co., Ltd. (D.251).—Industrial safety equipment.

Imperial Chemical Industries, Ltd. (plastics division) (D.412).—The exhibits illustrate the properties of plastics.

W. & T. Avery, Ltd. (D.523 and D.420).—Scales for industry and for retail.

Rozalex, Ltd. (D.706).—Barrier creams.



Combing brush with polyethylene quills (Halex, Ltd.)

C. & D. REFRESHER COURSE for Pharmacists

Compiled by
COLIN GUNN, B. Pharm., Ph.C.
Assisted by
S. J. CARTER, B. Pharm., Ph.C.
D. R. BRAGG, B.Sc. Hons. (Lond.), B. Pharm., Ph.C.,
and E. J. FITCHETT, Ph.C.

14.—ANALGESIC DRUGS

"For this relief much thanks; . . ."

FRANCISCO IN "HAMLET"

OF the many ways in which pain can be relieved by drugs we shall only consider those which act on the central nervous system. Little is known of the mode of action of this group of drugs but it is presumed that some kind of barrier is set up to the effects of the nerve impulses conveyed by the pain pathways. Their precise site and mode of action are at present unknown. The use of opium in the relief of pain has been known from very early times and, since the isolation of its principal alkaloid morphine, search has been made for drugs showing comparable analgesic efficiency but without its liability to cause addiction. The fundamental mechanism of addiction is still imperfectly understood and is one of the causes of the difficulty of a precise definition. The following definition has, however, been propounded by the Expert Committee on Drugs Liable to Produce Addiction of the World Health Organisation:—

"Drug addiction is a state of periodic or chronic intoxication detrimental to the individual and to society produced by the repeated consumption of a drug (natural or synthetic). Its characteristics include:—1. An overpowering desire or need to continue taking the drug and to obtain it by any means. 2. A tendency to increase the dose. 3. A psychic and sometimes a physical dependence on the effect of the drug."

The distinction between habit and addiction must be noted. Tobacco is an example of a substance causing habit formation and no one would suggest that it complies with the above definition. We may, therefore, safely continue to get pleasure from smoking if we wish.

Many analgesics have been produced with morphine-like properties which at first were thought wrongly not to produce addiction. Diacetylmorphine, now known to be one of the most dangerous drugs of addiction, and, more recently, pethidine are cases in point. The latter, and other recently introduced analgesics, will now be considered in some detail.

Pethidine

Pethidine was first studied because of its atropine-like action and was later found to have analgesic properties. A number of derivatives have also been studied. All are capable of producing addiction. Pethidine is absorbed when taken orally or given by injection. About 80 per cent. is believed to be destroyed in the body, probably by hydrolysis in the liver by an enterase and some is excreted in the urine.

ACTIONS AND USES. In addition to its analgesic properties pethidine has spasmolytic and sedative actions. As an analgesic it is one-tenth as potent as morphine but it neither depresses the cough centre nor causes constipation. Nausea and vomiting are less than with morphine. Withdrawal symptoms, in addiction which are more likely to occur after injection (its most effective means of administration) are less severe. It is usually administered in doses of 50 to 100 mgm. and its most important use is in obstetrics when up to 400 mgm. has been given. 100 mgm. are injected as soon as regular uterine contractions commence and repeated later if necessary. Uterine contractions are not significantly diminished nor is labour prolonged and the patient remains co-operative. It is sometimes given combined with hyoscine which gives an additional amnesic effect without apparently increasing the toxicity. Used post-operatively it is not as effective as morphine either in potency or length of action. It is valuable in pain due to smooth muscle spasm because of the spasmolytic action which it possesses to a greater degree than papaverine. Addiction to morphine has been treated by replacement with pethidine.

SIDE EFFECTS. To those already mentioned must be added dryness of the mouth (atropine-like effect), dizziness, faintness, visual disturbances, restlessness and anxiety. It has a quinidine-like action on the heart and respiration is less depressed than with morphine. Its effect on circu-

lation is slight except after intravenous injection when a fall in blood pressure may occur due to peripheral vasodilation.

Amidone

Amidone was introduced in Germany during the 1939-45 war. It is absorbed when given orally or by injection and is excreted in the urine (up to 30 per cent.) and in the faeces within twenty-four hours. There are a number of methods of testing the analgesic properties of drugs but most methods have their limitations. Different workers obtain different results owing to the difficulties of interpretation and psychological factors involved even with the same method. It would seem, however, that weight for weight amidone is one to three times as effective as morphine and ten to thirty times as effective as pethidine. It is less likely than morphine to cause nausea and vomiting except when given orally. It depresses respiration less than morphine but more than pethidine and hence its use is contra-indicated in obstetric analgesia. In normal doses it is not hypnotic or sedative; it depresses the cough reflex and, like pethidine, it has a spasmolytic action.

USES. The average dose is 10 mgm. given orally or by intramuscular or intravenous injection (the dose depending on the type of pain) repeated at three- to four-hourly intervals. It is useful in the relief of pain of all kinds in bed-ridden patients when side effects are less. It has proved of value in neoplastic disease and in pain of neurological, osseous or visceral origin. While useful in post-operative pain it is inadequate preoperatively. Small doses (2 mgm.) are effective in suppressing cough.

SIDE EFFECTS. Euphoria occasionally occurs as do nausea, vomiting and dizziness. Tolerance develops only very slowly. The risk of addiction is much less than with morphine and it is, in fact, used in the treatment of morphine addiction.

Phenadoxone

Phenadoxone is one of the newest synthetic analgesics which is non-hypnotic but must be regarded as a potential drug addiction. It is rapidly broken down in the body and excreted. Its potency against pain is comparable to that of amidone. It has roughly the same field of usefulness but on injection its action is rather less prolonged. It is given orally in doses of 10 mgm. increasing to 30

mgm. in severe pain, or 10 mgm. by injection.

SIDE EFFECTS. These are usually slight except in ambulatory patients when nausea and dizziness may occur. Phenadoxone must not be given intravenously because of its depressing effect on respiration.

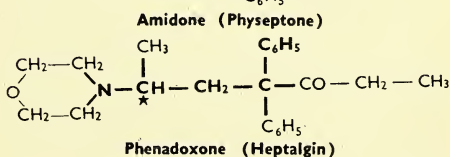
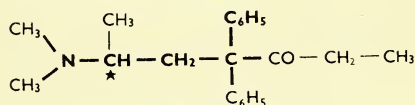
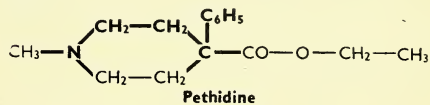
Methorphan

The latest addition to this group of drugs is a methyl-morphinan derivative—3 hydroxy N-methylmorphinan. Its approved name is methorphan and it is marketed under the name of Dromoran. The salt used in this country is the *l*-tartrate, the hydrobromide having been available for some time in the United States. It has about three times the potency of morphine: it is longer acting and is said to have less pronounced hypnotic action. Dosage varies from 1.5 mgm. to 4 mgm. according to the severity of the pain and it is given orally or by subcutaneous or intramuscular injection.

In conclusion it may be said that the advantage of the newer analgesics is that when one proves unsuitable for some reason another may prove more satisfactory. Pain is such a complex experience that no analgesic is likely to prove universally ideal.

Chemistry of the Analgesic Drugs

All four of the analgesics mentioned above are related to morphine as the following formulas show. Although many compounds have been prepared and tested those are the most satisfactory in retaining the analgesic properties of morphine and having less toxicity and tendency to addiction.



The grouping common to all these molecules (shown in heavy type) is also

common to methorphan and morphine (see *C. & D.*, 1951, II, 529, for full structural formulas of methorphan and morphine).

It appears that that common grouping is necessary for strong analgesia although the phenolic hydroxyl group is also essential for the activity of morphine and methorphan, absence of the group leading to greatly diminished efficacy. It is worthy of note that the synthetic methorphan—which is a simplified copy of morphine—has a greater analgesic effect than morphine. Despite the preparation of effective synthetic drugs, the important problem of addiction has not been overcome, all of the compounds having addiction tendencies to a greater or lesser de-

gree. The carbon atoms marked with an asterisk in amidone and phenadoxone are asymmetric resulting in two forms of each—the dextro and the laevo isomers. The drugs obtained by synthesis are racemic modifications (dl) and amidone is marketed in that form although the laevo isomer is twice as active as the racemic form which in turn, has approximately the same activity as morphine.

REVISION QUESTIONS

1. What is the main disadvantage of the powerful analgesic drugs which have been discussed?
2. How are the analgesic drugs believed to act?

(Answers on p. 630).

NEW BOOKS

Voluntary Service and the State.—7½ x 6¾ in. Pp. 132. George Barber & Son, Ltd., Furnival Street, London, E.C.4. 2s. 6d. In a report (based on an inquiry initiated by the National Council for Social Service and King Edward's Hospital Fund for London) on the needs of voluntary service in hospitals under the National Health Service the inquiry-director (Mr. John Trevelyan, O.B.E.) argues that voluntary endeavour, which was traditionally associated with British hospitals, is maintained under the Service, since finances, though obtained almost entirely from the State, are controlled by a "partnership between State and voluntary service, a pattern of administration which has no direct parallel in this country."

Essentials of Pharmacology.—Frances K. Oldham, Ph.D., M.D.; F. E. Kelsey, Ph.D.; E. M. K. Geiling, Ph.D., M.D. Second edition. 8 x 5 in. Pp. 462, including index. 40s. J. P. Lippincott Co., Aldine House, Bedford Street, London, W.C.2. The many advances made in pharmacology since the first edition was published (1947) have prompted the authors to prepare a second edition. Additions and revisions in the new work include a discussion on the rôle of radioactive isotopes in medicines; an enlargement of the section on adrenergic blocking agents; ganglionic blocking agents and muscle relaxants and a revision of the section dealing with antihistamines. As the authors are associated with the University of Chicago, references in the text to the National Formulary appertain to the American publication.

The Accountancy of Changing Prices.—The Research and Technical Committee of the Institute of Cost and Works Accountants. 9½ by 5½ in. Pp. 24. 2s. 6d. Gee & Co. (Publishers), Ltd., 27 Basinghall Street, London, E.C.2. An abridged edition of the main textbook (15s.) and specially prepared for business executives in industry. Price fluctuations have a serious effect on accounting procedures based on the conventional treatment of original money values so much so that the question arises whether accountancy can allow for these fluctuations in calculating costs and profits. This booklet suggests a manner in which information concerning the effect of changing price levels on the maintenance of real capital may be presented.

Dispensing Techniques, Part 1.—L. Smith, Ph.C. 11 in. x 8½ in. Pp. 73. 2s. plus postage. Drug Houses of Australia Export, Ltd., 2 Norfolk Street, Strand, London, W.C.2. A series of articles by one of the examiners in the Qualifying examination for pharmacy in New South Wales, reprinted from "Australasian Pharmaceutical Notes and News." From a consideration of the ethics of dispensing the author passes to dispensing techniques—specific gravity, percentage solutions, calculations, posology, etc. Part 2 to be published later will cover many special classes of product (emulsions, powders, etc.) and sterile dispensing. The emphasis is on implanting the elements of the subject firmly as a foundation for later knowledge and on the acquirement of manipulative skill.

TRADE REPORT

pot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

LONDON, APRIL 30

THE principal feature of the week in the PHARMACEUTICAL and FINE CHEMICALS market has been a reduction in the prices of CAFFEINE and THEOBROMINE. Both alkaloids are down by 5s. per lb., against previous quotations, and the SALTS by 2s. 3d. 2s. 6d. per lb., depending on the salt. In both caffeine and theobromine the new prices present the third reduction since the beginning of the year and theobromine alkaloid is now 12s. 6d. and caffeine alkaloid 18s. 6d. per lb. lower than at January. Trading in most commodities continued quiet both on home and export accounts. New price levels for ANTIMONY were established on April 28. Both grades have dropped by £35 per ton. The reduction is not unexpected in view of the Continental prices that have been undercutting. K. quotations for some time (see *J. & D.*, March 8, p. 327). Last year's peak, prevailing between April-November, was £390 for the 99 per cent., against £105 today and £160 on the eve of the Korean war. Chinese MENTHOL for the first time in many weeks attracted some interest. Import licences issued recently for AGAR are stated to be inadequate to meet consumer demand. Kōbē No. 1 on the spot is consequently bringing high prices, as is also any material landed that has not already been sold. With no business being done in ALOES, quotations from origin have eased slightly but are not at the level ruling for spot material. LSAMA COPAIBA is now offered at 18s. 6d. per lb., on the spot for Maranhão material. Black COCHINEAL was fractionally higher, and African GINGER remained quiet against previous quotations. Shippers of ALLIUM whole bark at origin shaded their prices. The low price levels in SHELL during the previous week introduced the buying activity, with the result that D.T.N. pure and F.O. Standard No. 1 are marked up by 15s. and 10s. per cwt. respectively. Recent rains in India are reported to have made this year's dry crop unevenly SENNA leaves much better than usual. This news is particularly welcome after the scarcities experienced last year. Prices should be easier as Alexandria crops are said to be good also.

The removal of restrictions by the Government against the export of BEESWAX and certain other WAXES (see p. 610), comes at a time when there are very few stocks here.

During the week price movements that took place in the ESSENTIAL OILS market were slight. The Board of Trade announces its applications to import during the second half of the year goods subject to

the "November" or to the "Budget" import cuts will receive consideration if received up to May 5. In making this concession the Board stresses that it will be impossible to consider applications received after that date.

U.S. Drug and Chemical Report

NEW YORK, APRIL 29

AMERICAN chemicals have continued steady in price during the past week with no very unusual features marking the routine activity of the trade. ANTIMONY OXIDE producers have reduced prices 5 cents per lb. to 39½ cents in carlots in accordance with more favourable costs of the METAL. Makers of LEAD chemicals may follow suit. SULPHURIC ACID continues readily available, and an improvement is reported in the outlook for SULPHUR supplies. Demand for all types of GLYCERIN remains in the doldrums. Second quarter export quotas for crude and refined glycerin exports are again set at \$800,000 lb. QUICKSILVER is now quoted at \$200-202 per flask, nominal, against \$202-204 per flask, nominal, previously. Owing to better basic material supplies THYMOL crystals have been reduced to \$3.60 per lb. (down 25 cents). Continued low prices for racemic and synthetic MENTHOL are expected to influence natural products from Brazil and Japan. Among BOTANICAL DRUGS, GUM ACACIA, amber sorts, is firmer at 15 cents per lb. (up ½ cent), while whole IPECACUANHA root is lower at \$6.40 per lb. Balsams are without feature with prices on COPAIBA steady at recently advanced levels. Business in ESSENTIAL OILS has been steady but only routine in nature. Lower prices per lb. prevailed for distilled LIME at \$7.00 (down 25 cents); spike LAVENDER, \$1.40 (5 cents); PATCHOULI, \$7.50 (25 cents) and Ceylon CITRONELLA, 66 cents (9 cents).

Pharmaceutical Chemicals

CAFFEINE.—Lower. Rates (per lb.) are now as follows:—

	1 cwt.	28 lb.	7 lb.
	s. d.	s. d.	s. d.
ALKALOID, B.P.	36 6	37 6	38 6
ALKALOID ANHYDROUS	39 0	40 0	41 0
CITRATE, B.P.C. ...	23 0	24 0	25 0
and SODIUM BENZOATE, B.P. ...	24 0	25 0	26 0
and SODIUM SALICYLATE, B.P.C.	25 0	26 0	27 0
and SODIUM IODIDE	33 0	34 0	35 0

Lots of 5-cwt. are 1s. per lb. less than the 1-cwt. rates.

KAOLIN.—In 1-cwt. bag, LIGHT is quoted at 90s. per cwt., and HEAVY at about 25s. per cwt.

HYPOPHOSPHITES. — Prices per lb. are unchanged as follows :—

SALT	7 lb.	28 lb.	1 cwt.
	s. d.	s. d.	s. d.
AMMONIUM ...	12 10	12 5	12 0
BARIUM ...	7 10	7 5	7 0
CALCIUM ...	5 11	5 6	5 1
IRON ...	12 1	11 8	11 3
MAGNESIUM ...	9 4	8 11	8 6
MANGANESE ...	10 11	10 4	9 6
POTASSIUM ...	7 11	7 6	7 1
SODIUM ...	6 7	6 2	5 9

ISOPROPYL ALCOHOL.—Prices range from 18s. 3d. to 19s. 9d. per gall., as to quantity.

LACTOSE.—English, in 1-ton lots packed in 2-cwt. kegs, £142 per ton; in 1-cwt. kegs, £143 per ton. In 1-cwt. paper-lined bags, 5s. per cwt. less than the above rates. Prices include delivery in the United Kingdom.

MAGNESIUM CARBONATE. — Rates are :— In 5-cwt. lots, 149s. 8d. per cwt.; 1-cwt., 155s. 2d. (in bulk). In quantities from 28-lb. and less than 1-cwt. prices are from 1s. 10d. to 2s. 1½d. per lb., as to quantity. **HEAVY, B.P.,** in bulk is as follows :— 1-cwt., 167s.; 5-cwt., 158s. per cwt.; in quantities of 28-lb. and less than 1-cwt., prices are from 2s. to 2s. 4d. per lb.

OPIATES.—Home-trade rates (per oz.) for quantities of 5 oz. and upwards are as follows :—**CODEINE.** — Alkaloid, hydrobromide and iodide, 60s. 6d.; hydrochloride and sulphate, 52s. 9d.; phosphate, 45s. 6d. **MORPHINE.**—Alkaloid, bimeconate, and tartrate, 62s. 6d.; hydrochloride, acetate, hydrobromide and sulphate, 52s.; **DIAMORPHINE.** — Alkaloid, 62s.; hydrochloride, 56s. 6d.; **ETHYLMORPHINE.** — Alkaloid, 65s. 6d.; hydrochloride, 55s. 6d.

PARAFFIN.—**LIQUID** : Prices to wholesale distributors for **HEAVY, B.P.,** is £104 7s. 6d. per ton (8s. 3d. per gall.). **LIGHT, B.P.,** is £85 7s. 6d. per ton in 40/45 gall. returnable loaned drums, delivered in the U.K. **SOFT PARAFFIN : WHITE** is £96 1s. or £93 17s. per ton as to grade and **YELLOW**, £71 13s., all in non-returnable 3-cwt. drums. **HARD PARAFFIN**, m.p. 135°/140° F., is £84 4s.; 145°/150° F., £95; and 160°/165° F., £115 per ton, in minimum ton lots, ex works.

QUININE. — Makers' rates (per oz.) to home-trade distributors are given below :— additional charges must be added for repacking, etc. **ALKALOID**, from 5s. to 5s. 6d.; **ACETYSALICYLATE**, 6s. 3d. to 6s. 9d.; **BISULPHATE**, 3s. 7d. to 4s. 1d. **DIHYDROBROMIDE** and **DIHYDROCHLORIDE**, 4s. 11d. to 5s. 5d.; **FORMATE**, 5s. 9d. to 6s. 3d.; **GLYCEROPHOSPHATE**, and **PHOSPHATE**, 5s. 5d. to 5s. 11d.; **HYDROBROMIDE** and **HYDROCHLORIDE**, 4s. 6d. to 5s.; **SALICYLATE**, 4s. 8d. to 5s. 2d.; **SULPHATE**, 4s. to 4s. 6d.; **QUININE** and **UREA HYDROCHLORIDE** is quoted from 4s. 10d. to 5s. 4d.

THEOBROMINE. — Reduced. Prices (per lb.) are now as follows :—

	1 cwt.	28 lb.	7 lb.
	s. d.	s. d.	s. d.
ALKALOID, B.P.C. ...	39 0	40 0	41 0
and CALCIUM SALICYLATE ...	27 0	28 0	29 0
and SODIUM SALICYLATE ...	25 0	26 0	27 0
and SODIUM BENZOATE ...	24 0	25 0	26 0

Lots of 5-cwt. are 1s. per lb. less than the 1-cwt. rates.

Crude Drugs

AGAR.—Very firm. **Kobé No. 1** on the spot is quoted sold at 14s. 9d. per lb.

ALOES. — Prime Cape on the spot offered at from 200s. to 202s. 6d. per cwt. Forward quotations are about 202s. 204s., c.i.f. Curaçao is 425s. per cwt., the spot.

ANTIMONY.—Lower. English, 99.6 per cent., £317 10s.; 99 per cent., £305 10s. ton.

BALSAMS. — *Canada* is 32s. 6d. per on the spot. *Copaiba*: Maranhão on the spot is offered at 18s. 6d. per lb. *Peru* 15s. 9d. per lb., duty paid, and 13s. 9d. c.i.f. for shipment. *Tolu*, natural is 32s. on the spot at 33s. 6d. per lb., and shipment, 31s., c.i.f.

BELLADONNA.—**ROOT** is from 3s. 3d. 4s. 4d. per lb., on the spot, duty paid, according to test. **LEAVES** are from 3s. 5s. per lb., as to test.

BENZOIN.—No. 1 Sumatra block on the spot is quoted at from £27 10s. per cwt. and for shipment, £26 (or a shade under) c.i.f. Siam almonds are from 27s. 6d. 37s. 6d. per lb., spot, as to size.

BISMUTH. — In minimum 5-cwt. **METAL** is 25s. per lb.

CARDAMOMS. — Aleppy greens for shipment are from 13s. 9d. per lb., c.i.f. spot, 17s. 6d.

CASCARA SAGRADA.—American bark, peeled, is from 320s. per cwt., duty paid, and 290s., c.i.f., forward.

CASSIA BARK.—Whole on the spot 125s. per cwt., ex warehouse; forward 117s. 6d., c.i.f.

CHERRY BARK.—Thin cut natural is sold at 2s. 2d. per lb., duty paid, ex warehouse London.

CHILLIES.—Quiet. Sierra Leone on the spot are 220s. per cwt.; for shipment 175s., c.i.f.; East African (Mombasa) 275s., ex warehouse; for shipment, 275s., c.i.f.

COCHINEAL.—Firm. Good quality is 7s. 9d. per lb.; silver grey, 7s., for material.

COLOCYNTH.—Pulp on the spot is 1s. per lb., duty paid.

RGOT.—Portuguese is 41s. per lb., spot, 38s., c.i.f.

ENTIAN.—French natural on spot is 6d. per cwt., and 115s., c.i.f., nominal.

INGER.—African on the spot is 125s. cwt., and 135s., c.i.f.; Jamaican No. 190s., c.i.f.; spot quotations are from 120s. to 220s. per cwt., as to quality. Co-132s. 6d. per cwt., c.i.f.

AIACUM RESIN. — Spot quotations are 2 3s. per lb.

M ACACIA.—Kordofan cleaned sorts on spot are 115s. per cwt.; shipment, 97s. buyer's licence.

ENNA.—Indian leaves are about 90s. cwt., on the spot. May-June shipment of Sudanese are quoted at 110s., c.i.f.

ECACUANHA.—Quiet. Forward offers of aguan, May-June shipment, are from 46s. per lb., c.i.f. Spot prices of mbian are 52s. per lb., and Nicar-1, 55s.

RAYA.—No. 1 gum on the spot is about 200s. per cwt.; No. 2, 200s.

LA NUTS.—African halves are available on the spot at 5d. per lb.

NOLIN. — Scarce. B.P. anhydrous is 170 per ton and hydrous, £150.

QUORICE. — Anatolian natural whole on spot in London is quoted at 52s. 6d. per cwt.; Syrian, natural, is 42s. 6d. sh block juice quotations are from 40s. upwards, according to holder, duty Turkish stick is 240s. per cwt., duty Italian stick, 475s. per cwt., duty

CE. — West Indian pale blade is 10s. per lb.; for shipment, 8s. 9d., c.i.f.

ATIC.—Quotations for tears (No. 2) from 12s. per lb., spot.

YTHOL. — Firm. Chinese spot material is from 52s. per lb., and Brazilian, 48s. to 49s., both duty paid. Brazilian forward price for May-June shipment is 41s., c.i.f.

CURY. — Spot quotations are from £73 10s. per flask, ex warehouse.

RR.—Aden selected sorts are quoted from £17 to £18 per cwt., on the spot. Others are from £7 10s. to £8 10s.

MEGS. — Quiet. West Indian 80's at 3s. 9d. per lb. on the spot and 4s., c.i.f., for shipment. East Indian shipment, are quoted at from 3s. 7½d.,

S ROOT. — Offers of good quality fine are about 150s. per cwt., ex use.

SIAM.—Chips are available on the spot at 36s. per cwt.; forward offers are 6d., c.i.f.

LAIA. — Whole bark on spot is 100s. per cwt., and 122s. 6d., c.i.f., for shipment.

SEEDS.—ANISE.—Only Turkish is offering on spot, at 135s. per cwt., in bond, and 150s., duty paid. CARAWAY.—Dutch is now quoted at 98s. per cwt., duty paid, spot London. CELERY.—Indian is 1s. 11d. per lb., spot London. CORIANDER.—Market quiet. Morocco on the spot is 72s. 6d. duty paid (67s. 6d., in bond); Argentine splits, 65s., duty paid; Indian, 95s. Shipment: New-crop Morocco, 50s. per cwt., c.i.f., for June-July. CUMIN.—Market unchanged. Spot: Cyprus, 195s. per cwt.; Indian, 190s.; Malta, 200s.; Morocco, 205s., duty paid. DILL.—Indian offered at 82s. 6d. per cwt., spot London. FENNEL.—Indian is quiet at 205s., spot, and French, 190s., duty paid. FENUGREEK.—Morocco in poor demand with sellers quoting 42s. 6d., duty paid, ex store, London or Liverpool. MUSTARD.—English, 70s. to 100s. per cwt., according to quality.

SENNA.—Tinnevely leaves quotations are as follows: Prime No. 1, 1s. 6½d. per lb., nominal; prime No. 2, 1s. 4½d., spot; f.a.q., dry crop, No. 2, 11½d., c.i.f.; No. 3, 9½d., spot and 8½d., c.i.f.; No. 4, spot, 8d., and forward, 7½d., c.i.f. Pods.—Tinnevely hand-picked No. 1, 2s. 4½d. per lb., c.i.f., May shipment; f.a.q., 2s. 1d., spot, and 1s. 10d., c.i.f. Alexandria, hand-picked No. 1 from 6s. 6d. per lb., upwards; medium, 4s. 6d. to 4s. 9d., and manufacturing, 2s. 2d., spot, and 2s., c.i.f. Leaves are 11d., and siftings, 10d. per lb., spot.

SHELLAC. — Spot quotations are: F.O.T.N., pure, 220s.; F.O. Standard No. 1, 240s.; fine orange, 265s. to 340s. per cwt., ex-London warehouse.

STROPHANTHUS.—*Kombé*, 100 per cent. is quoted at 18s. per lb. on the spot. *Gratus*, forward offers are 33s. 6d. per lb., c.i.f., April shipment.

STYRAX.—Spot is 7s. 9d. per lb., duty paid.

TURMERIC.—Madras finger is 65s. per cwt., spot London.

VALERIAN.—Indian is offered at 140s. per cwt., spot, and Belgian at 220s.

WAXES.—BEES'.—Dar-es-Salaam on the spot is 445s. per cwt.; shipment, 395s., c.i.f. Benguela on the spot is 460s. per cwt. nominal, in bond; shipment, 390s., c.i.f. CANDELLILLA.—Spot supplies are offered at 640s. per cwt.; no shipment offers.

CARNAUBA.—Prime yellow, spot, 1,000s. per cwt.; shipment, 940s., c.i.f. Fatty grey, spot 760s. per cwt.; shipment, 750s., c.i.f. MONTAN.—Reibeck crude on the spot is 135s. per cwt. OURICURI.—Spot 0.5 per cent. impurities, 700s. per cwt. SPERMACETI.—Spot supplies are from 2s. to 2s. 3d. per lb.

WITCH HAZEL.—Leaves on the spot are quoted at 2s. per lb.

Essential and Expressed Oils

ALMOND. — English-expressed is from 6s. 6d. per lb.

AMBER. — Rectified on the spot is quoted at from 1s. 6d. per lb.

ANISE. — Steady. Spot supplies are from 8s. 6d. per lb., according to quantity.

BERGAMOT. — Nominal spot value is 110s. per lb.

CANANGA. — Supplies on the spot are quoted at from 57s. 6d. per lb.

CARAWAY OIL. — English-distilled is offered at 45s.; imported oils in limited supply are from 33s. per lb., for spot.

CASSIA. — Spot supplies are offered from 21s. per lb.

CEDARWOOD. — Spot quotations for Kenya are from 4s. 6d. per lb.

CINNAMON. — B.P. oil on the spot is quoted at from 65s. to 70s. per lb. English bark oil is offered at 22s. 6d. per oz. Seychelles leaf, 14s. per lb., spot.

CITRONELLA. — Spot prices for original drums are: Ceylon, 5s. 1d. per lb.; Formosa and Java, 6s. 3d. Forward quotations are: Ceylon, 5s.; Formosa, 4s. 6d., and Java, 4s. 10½d. per lb., all c.i.f.

EUCALYPTUS. — 70 to 75 per cent. eucalyptol on the spot is 7s. 9d. per lb. and 80 to 85 per cent., 8s. 6d. Forward offers are 7s. 6d. and 8s. per lb., c.i.f., respectively.

LAVANDIN. — Quotations for spot supplies are about 20s. per lb.

LAVENDER. — French, 40-42 per cent. linalol on the spot is from 44s. 6d. per lb. Spanish spike is 13s. per lb.

LEMONGRASS. — Forward quotations are 8s. per lb., c.i.f., June-July shipment. Spot supplies are from 10s. 6d. per lb.

PATCHOULI. — Spot supplies of Penang are offered at 56s. per lb., and forward, 50s., c.i.f.

PENNYROYAL. — Offers for immediate shipment are from 29s. per lb., landed, duty paid, seller's licence.

PEPPERMINT. — Chinese *arvensis* oil on the spot is 34s. per lb.; Brazilian, 25s.; Italian "Mitcham" type, 62s. 6d. per lb., c.i.f., and about 65s. for spot.

PETITGRAIN. — Paraguay is offered at 22s. 6d. per lb., c.i.f. Spot supplies are about 24s. 6d. per lb.

PIMENTO BERRY. — English-distilled oil, 57s. 6d. per lb. Imported oil is from 47s. 6d. per lb., spot.

PINE. — *Pumilionis* on the spot is quoted at from 18s. to 20s. per lb.; *sylvestris* is at about 11s. per lb., and Siberian (*abietis*) is from 18s. to 20s. per lb., duty paid, as to holder.

SANDALWOOD. — Mysore oil on spot is from 74s. per lb., as to quantity. Australian oil is offered at 45s. per lb.

WORLD TRADE

Southern Rhodesian Import Duties. Southern Rhodesia is to reimpose suspended customs duties on certain goods including medicinal preparations and tinctures containing over 3 per cent. pure spirit, and other medicinal preparations "imported in packages and not for direct sale to the public."

West German Liberalised Imports. The liberalisation quota for imports of a number of chemicals including nitric and hydrochloric acids has been raised from 60 to 70 per cent. by the West German Government. Authorisations for the following imports from Great Britain were published on April 17 (value expressed in D.marks): — Soap, 24,000; acetone, 88,000; lactic acid, 30,000; penicillin, 58,000; photographic plates, films, 25,000 preparations for cosmetics, 50,000.

Canadian Production of Cosmetics. The wholesale value of toilet preparations produced in Canada during 1950 reached an all-time record total of \$30 million compared with the previous peak of \$25 million in 1949. Among the main items were: — Perfumes, \$13 millions; colognes, \$3.8 millions; face powders, \$2.7 millions; face powders, \$1.4 millions; talcum powders, \$1.3 millions; shampoos, \$2.2 millions; deodorants, \$1 million; hair tonics, brilliantines, wave-sets, etc., \$1.8 millions; home permanent wave kits, \$2.2 millions; and aftershave, \$5.9 millions.

Japanese Imports. — The Ministry of International Trade and Industry in Tokyo has invited applications for licences to import from the sterling area a number of goods including the following: —

Gum tragacanth, rosin, derris root or cubeb, liquorice root, olive oil, carnauba wax, borax and boric acid, rennet casein, lanolin, dros, ACTH, testosterone propionate, penicillin, hydrochloride, cortisone acetate, methyltestosterone, streptokinase, gum acacia and shellac.

Under the semi-automatic approval system a block of exchange is allotted for the import of any of the following items: —

MEDICAL SUPPLIES: Scutellaria root, senna, gentian root, condurango bark, uva ursi, nux vomica, senega root, sandarac, aloes, cassia bark, cloves, rhubarb, ipecacuanha, musk, diethyl-amino-ethanol, synthetic vitamin B₂, vitamin B₆, vitamin B₁₂, vitamin folic acid, dl-methionine, ethinyl oestrone, paiba balsam.

ESSENTIAL OILS: Bois de rose, sandalwood, ylang, cananga, lemon, petitgrain, bergamot, geranium and cassia oils.

HOSPITAL AND OTHER SALARIES

MINISTRY of Health circular issued recently sets out salary scales and conditions of service, for hospital pharmacists apprentices, that have been agreed by mittee C of the Pharmaceutical Whit- Council and approved by the Minister. method of calculating points is un- ged and the following are the new (from January 1 for pharmacists and h 12 for apprentices):—

Grade	Salary Scale (£ per annum)
Pharmacist	450* x 25 to 575
Chief Pharmacist	525 x 25 to 625
Pharmacist (category IV)	575 x 25 to 675
Chief Pharmacist (category V)	625 x 25 to 725
Pharmacist (category I)	575 x 25 to 675
" (category II)	625 x 25 to 725
" (category III)	680 x 25 to 780
" (category IV)	735 x 25 to 885
" (category V)	785 x 25 to 935

commencing salary linked to age 23 (or over).
Pharmacists employed at hospitals in Metropolitan Police area and in the of London are entitled to an extra "don Weighting" as follows:—£20 mnum for ages 21 to 25, above that £30 p.a. (for salaries up to £800 £40 p.a. (£801-£1,000) and £50 over £1,000).

GRADUATE APPRENTICES' salaries:—

	First year £ p.a.	Second year £ p.a.
Pharmacists who have passed examination who are exempt from Pharmaceutical Society's immediate examination	145	170
Pharmacists who have not passed examination and nor are exempt from examination	125	150

don weighting of £10 p.a. (for age 21 years), £20 p.a. (21 to 25 years) £30 p.a. (26 years and over) applies. Salaries for hospital dispensing as- sistants are not affected but those that are ent operation are:—

Age in years	£ per annum
16 to 21	110 x 25 to 235
22 and over	290 x 10 to 370

a. is added to salaries of assistants 18 years or over and with one of the

following qualifications:—(i) The certi- cate of the Society of Apothecaries of Lon- don; (ii) the dispensing certificate of the R.A.M.C. or R.A.F.; (iii) a qualification approved by the Minister of Health or Secretary of State for Scotland as being equivalent to either of those qualifications; (iv) a certificate given by the employing authority that the assistant is fully quali- fied to perform the highest duties appro- priate to the grade. An addition of £10 to £30 is made for London weighting.

The minimum salary scales for pharma- cists and unqualified assistants in retail establishments, agreed to by the Industrial Court in 1951, are as follows:—

	London £ s.	Provin- cial A £ s.	Provin- cial B £ s.
QUALIFIED PHARMACY SHOP MANAGERS: Average weekly sales up to £100	10 10	10 5	10 0
For each additional £10 weekly turn- over, an additional 2s. up to	15 10	15 5	15 0
QUALIFIED PHARMACY SHOP MANAGERESSES: Average weekly sales up to £100	10 0	9 15	9 10
For each additional £10 weekly turn- over an additional 2s. up to	15 0	14 15	14 10
PHARMACISTS (MALE): 1st year after qualifying	8 5	8 0	7 15
2nd year	8 15	8 10	8 5
3rd year	9 5	9 0	8 15
PHARMACISTS (FEMALE): 1st year after qualifying	8 0	7 15	7 10
2nd year	8 10	8 5	8 0
3rd year	9 0	8 15	8 10
UNQUALIFIED ASSIST- ANTS (MALE): Age 20	5 0	4 15	4 10
Age 21	5 10	5 5	5 0
Age 22	6 0	5 15	5 10
Age 23	6 10	6 5	6 0
Age 24	7 0	6 15	6 10
UNQUALIFIED ASSIST- ANTS (FEMALE): Age 20	4 10	4 5	4 0
Age 21	5 0	4 15	4 10
Age 22	5 10	5 5	5 0
Age 23	6 0	5 15	5 10
Age 24	6 10	6 5	6 0

Those with the Apothecaries' Hall certificate to receive the unqualified assistant male rate less 5s.

STUDENT EXCHANGES

THE executive of the International Pharmaceutical Students Federation is submitting to all member countries a scheme for promoting student exchange. Under the scheme students are divided into (a) students who wish to work in a foreign pharmacy for three to six months; (b) students who wish to observe the work of a pharmacy during a holiday of up to one month or the way of life of pharmaceutical students in another country; and (c) parties of students.

Students in categories (a) and (b) may be received by pharmacists who have or have not families. Where the host has a family it is possible that a direct exchange might be made. Observer students might also be received by students who are able to entertain, or direct exchanges of observer students might be made. Correspondence on the accommodation of parties of students is taking place between the chairman of the student exchange committee and the I.P.S.F. liaison secretaries of the countries taking part (Austria, Belgium, Denmark, Finland, France, Great Britain, Holland, Irish Republic, Norway, Sweden, Switzerland and Western Germany). Commonwealth students resident in Great Britain may also take part.

Application forms for students who wish to participate, or for hosts, are available from the I.P.S.F. liaison secretary in each country concerned. The British liaison secretary is Mr. K. Palmer, The Pharmacy Department, Nottingham University.

A PHARMACIST'S ANTHOLOGY

THEN, traversing with the decided step of one who remembered the way well, several dark and dirty streets—much dirtier than usual, for the best public thoroughfares remained uncleansed in those times of terror—he stopped at a chemist's shop, which the owner was closing with his own hands. A small, dim, crooked shop, kept in a tortuous, up-hill thoroughfare, by a small, dim, crooked man. Giving this citizen, too, good night, as he confronted him at his counter, he laid the scrap of paper before him. "Whew!" the chemist whistled softly, as he read it. "Hi! hi! hi!" Sydney Carton took no heed, and the chemist said: "For you, citizen?" "For me." "You will be careful to keep them separate, citizen? You know the consequences of mixing them?" "Per-

fectly." Certain small packets were and given to him. He put them, one, in the breast of his inner coat, and took out the money for them, and liberally left the shop.—From "The Two Cities," by Charles Dickens

TRADE MARKS

From the "Trade Marks Journal," April

For pharmaceutical preparations (5).

KINADEN, 696,420, by Schering A.G. Germany. POTTER'S BIOGENIN, 70, Potter & Clarke, Ltd., London, E.1.

For pharmaceutical preparations for human veterinary use (5).

INTRINSIN, 705,199, by Organon Laboratories Ltd., London, W.C.2.

For all goods (5).

CONSPEN, 705,339, by Boots Pure Drug Co. Ltd., Nottingham.

For photographic cameras, and parts and accessories thereof (9).

FINETTA, FINELUX, 705,028, by Finet & Peter Saraber Kommandit-gesellschaft, Harz, Germany.

For scientific apparatus and instruments (1).

ELA, 703,355, by Electricals, Ltd., London-Tyne, 2. HISTOKINETTE, 705,073, by E. R. Squibb & Sons, Ltd., Slough.

For toilet articles (21).

CONGRESS, 704,896, by S. D. Richardson & Co. Ltd., London, W.1.

For muscle-relaxant and hypnotic preparations (5).

TOLBARTAL, 705,161, by E. R. Squibb & Sons, Ltd., London, W.1.

From the "Trade Marks Journal," April

For biological stains and reagents (1).

MICHROME, B693,646, by Edward G. Miehle & Co. Ltd., London, S.W.6.

For all goods (5).

ADROMIN, DIONOSIL, 703,443-44, by Glaxo Laboratories Ltd., Greenford, RO. 704,986, by Roche Products, Ltd., Welwyn Garden City.

For non-medicated toilet preparations (3).

GLORIOUS AGE, 705,675, by J. & E. B. Ltd., London, W.1.

For pharmaceutical preparations and substances (5).

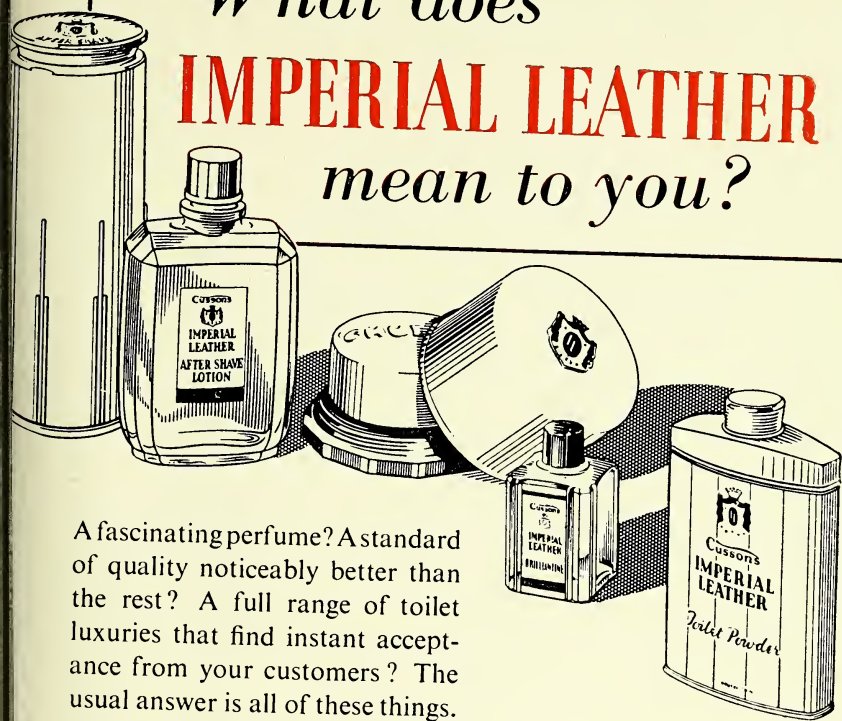
BIMEDIC, B703,969, by Medico-Biological Laboratories, Ltd., London, S.E.25. M. BAS, 705,226, by The Brynn Manufacturing Co. Ltd., Ashton-in-Makerfield, Wigan.

Answers to Revision Questions

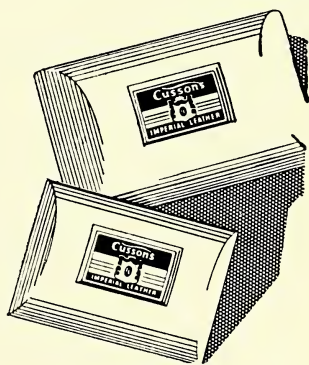
1. They are all capable of producing drug addiction and are, therefore, especially dangerous for short periods.

2. By preventing the nerve impulses from reaching their site of action, the precise way in which that is done is not known.

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